

حمل الآن

مجاناً وحصرياً

المراجعة رقم (1)

الترم الاول



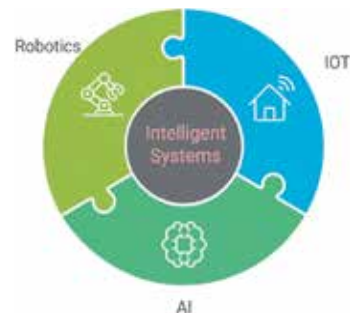
Summary Unit 1

Final Revision

Lesson 1 Intelligent Systems and Their Impact on Climate Change:

1 **Interconnected Intelligent Systems:** It combines three important technologies

- 1 **IoT:** connects devices to the internet.
- 2 **AI:** analyzes information and makes decisions like humans.
- 3 **Robotics:** devices that move and perform tasks.



2 **Example on Smart Car Breakdown:**

- 1 **IoT:** sends location and problem data to a service center.
- 2 **AI:** analyzes the cause and suggests solutions.
- 3 **Robotics:** repairs the car or requests a transport vehicle.

3 **Practical Applications in Daily Life:**

- » **Smart Home:** IoT controls devices, AI predicts needs, robots clean and assist.
- » **School Robot:** IoT connects to resources, AI answers questions, robot communicates.
- » **Smart Farming:** IoT monitors soil, AI analyzes, robots irrigate or spray pesticides.
- » **Voice Assistant:** IoT accesses info, AI understands speech.
- » **Smart Car:** IoT connects to maps, AI monitors hazards, robots control movement.

4 **Impact on Climate Change:**

Global Warming: IoT measures pollution, AI suggests solutions, robots plant trees/purify air.

Air Pollution: IoT monitors gases, AI identifies areas, robots use air purifiers.

Water Shortage/Drought: IoT measures soil, AI calculates water, robots irrigate efficiently.

Floods: IoT measures rainfall, AI sends warnings, robots assist in rescue.

Melting Ice: IoT monitors melting, AI predicts risks, robots collect data and support prevention.



Lesson 2 Advanced Cyber Threats

» These are not simple viruses, but planned attacks that exploit system vulnerabilities or user behavior.

1 **Ransomware:**

- » A type of malware that encrypts files or locks devices and demands ransom money to restore access.
- » It spread through suspicious emails, malicious links, fake websites, or untrusted downloads.

2 **Advanced Social Engineering:**

- » Not a hack of systems, but a hack of minds
- » It Tricks people into giving confidential information.

Spear Phishing: Personalized fake emails or messages targeting specific individuals or organizations

Pretexting: Attacker creates a fake story (e.g., pretending to be bank staff or technical support).

Baiting: Offering something attractive (like a free USB drive with malware).



1 Distributed Denial of Service (DDoS) Attacks:

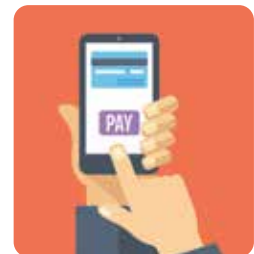
- » Attackers use many **botnets** (infected devices) to access a website at the same time.
- » The website becomes slows down or disabled.
- » This prevents legitimate (real) users from accessing it.

Lesson 3 Big Data

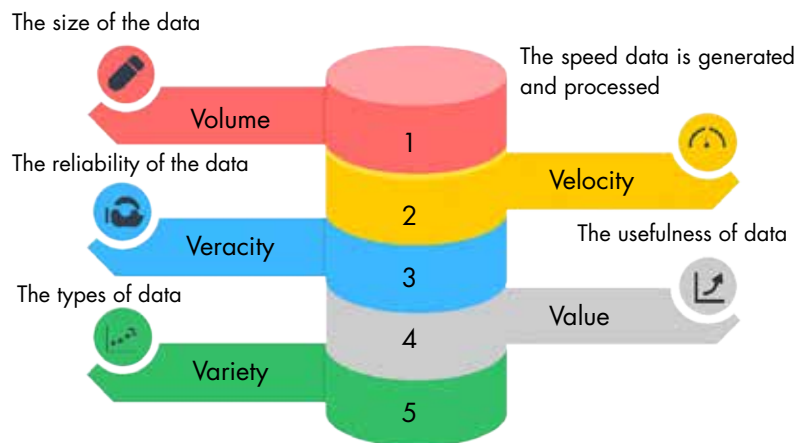
- » Large and complex data that cannot be processed efficiently using traditional tools (like Excel).

» Sources of Big Data:

- 1 **Internet-connected devices (IoT):** Smart watches, refrigerators, cars collect usage, location, and activity data.
- 2 **Social Media:** Posts, comments, photos, videos, likes generate massive data (sometimes unreliable).
- 3 **Financial Data:** Payments, transactions, and stock trading record amounts, users, times, and locations.
- 4 **Smart Devices:** Phones, cameras, and smart home devices track location, apps, and interactions.
- 5 **Digital Content:** Videos, images, and audio generate data from views, comments, and shares.
- 6 **Government Data:** Population registers, censuses, taxes, surveys.
- 7 **Geographic and Spatial Data:** Satellites and GPS provide maps, traffic, and environmental data.



» The 5Vs of Big Data:



» Types of Big Data:

Structured Data: Organized in tables with rows and columns. (e.g., customer data, transactions).

Unstructured Data: No clear structure; includes text, images, videos, social media posts.

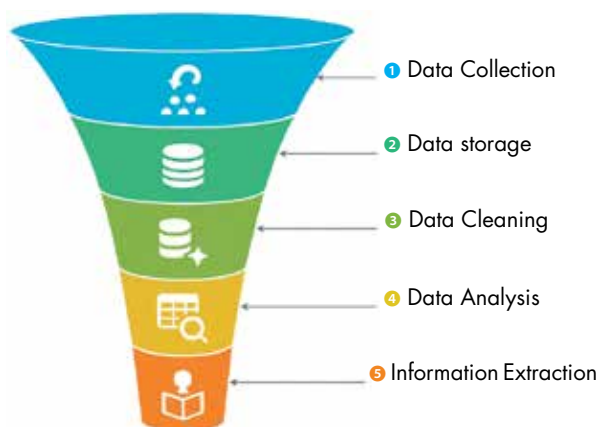
Semi-Structured Data: A mix of both; such as emails (**structured** parts like sender, recipient / **unstructured** like message body).

Lesson 4 Big Data and Its Relationship to Artificial Intelligence

» Big Data is essential for AI to operate and learn.

» AI also helps process and analyze Big Data to extract value and insights.

Stages of Big Data Processing:





- 1 **Data Collection:** collecting massive data from multiple sources.
- 2 **Data Storage:** Saving data in large databases or cloud systems.
- 3 **Data Cleaning:** Removing errors, duplication, and incorrect data.
- 4 **Data Analysis:** Using AI and machine learning to analyze data.
- 5 **Information Extraction:** Valuable information is extracted from the analyzed d improvements.

Uses of Big Data:

- 1 **Artificial Intelligence:** Designing algorithms that mimic human intelligence (speech, vision, reasoning).
- 2 **Machine Learning & Deep Learning:** Training models to improve predictions (e.g., weather forecasting).
- 3 **Network Monitoring & Cybersecurity:** Detecting threats by analyzing network traffic patterns.
- 4 **E-commerce:** Big data is used for Understanding customer behavior, improving recommendations, adjusting prices, and boosting sales.

The Role of Big Data in AI:

- 1 **Improving Accuracy & Performance:**
Training on diverse data improves generalization and reduces errors.
- 2 **Enabling Advanced AI Applications:**
 - **Natural Language Processing (NLP):** Requires massive text datasets for accurate language understanding (Such as GPT)
 - **Computer Vision:**
Relies on large datasets of images/videos for recognition tasks.
 - **Predictive Analytics:**
Identifies patterns in historical data for future predictions.
 - **Discovering Hidden Insights:**
Reveals valuable patterns in fields like healthcare for diagnosis and treatment.

Summary Unit 2

Final Revision

Lesson 1 Principles of Designing Professional and Attractive Website Interfaces

User Experience (UX) Design: focuses on how people use an application or website, ensuring they can easily find what they need, feel satisfied while using it, and enjoy clear interactions.

Importance of UX Design:

- » If the website/app is easy to use, the user will feel satisfied and return.
- » If it is difficult to use, the user may abandon it forever.

Basic Principles of UX Design:

- 1 **Ease of Navigation:** Clear, simple menus make navigation quick and effortless.
- 2 **Clarity:** Information must be easy to understand.
- 3 **Consistency:** Maintain the same style across the website/app.

User Interface (UI) Design: The way the website/app/game appears visually:

- Are the colors attractive?
- Are the fonts easy to read?
- Are the buttons clear and usable?

Importance of UI Design: A beautiful, attractive interface creates a positive first impression; messy design discourages users.

Basic Principles of UI Design:

- 1 **Colors:** Choosing the right colors affects the user's mood.
- 2 **Fonts:** Should be legible and context-appropriate.
- 3 **Layout:** Organize interface elements logically, makes app or website easy to use.



Lesson 2 Web Page Format

1 From HTML to CSS:

- » HTML describe the content of web pages.
- » adding formatting to every page was time-consuming and costly.
- » To solve this, W3C developed CSS which separates formatting from content.
- » Css control the formatting of multiple web pages simultaneously.

2 Benefits of CSS:

- » **Time-saving:** Formatting is placed once in a CSS file and applied to multiple HTML pages.
- » **Loading speed:** The browser downloads the CSS file once and reuses it across linked pages.
- » **Ease of modification:** Changing the CSS file updates the formatting of all linked pages automatically.
- » **Improved aesthetics:** Pages become visually organized and attractive.
- » **Improved readability:** Proper fonts and colors make content clearer.
- » **Separation of design and content:** The CSS file controls appearance without modifying HTML structure.
- » **Responsive design:** CSS adapts layouts for different screen sizes (computer, tablet, mobile).

3 Basic Structure of CSS: General Syntax:



- **Selector:** HTML element(s) to be styled (e.g., body, h1).
- **Property:** Formatting aspect to change (e.g., color, size).
- **Value:** How the property is changed (e.g., blue, 20px).

4 Ways to Add CSS to HTML:

- » **Inline CSS:** Applied directly to an element.
- » **Internal CSS:** Used to format individual HTML pages.
- » **External CSS (preferred):** Best for large websites to unify the design and layout of their pages.



Lesson 3 My Digital Project for My School

1 Project Objective:

Design two web pages:

- School Data Page (contains school information and activities).
- Student Data Page (contains personal and contact information).
- Format both pages using External CSS for consistency.

2 Key Learning Points:

- Use of external CSS to unify the design across multiple pages.
- Clear HTML structure (header, sections, footer) improves readability.
- CSS enhances layout, colors, spacing, and visual appeal.
- Both pages share the same style.css file, ensuring consistency and reducing coding effort.

Lesson 4 Creating Your Website with the Help of Artificial Intelligence

1 Importance of Having a Website:

- » Connect with the world and share ideas.
- » Platform for self-expression (hobbies, talents, achievements).
- » Showcase school projects professionally.
- » Learn valuable digital skills for the future.

2 Role of Artificial Intelligence in Website Creation:

- » Understands simple commands and builds professional designs.
- » Saves time and effort (no coding required).
- » Suggests creative ideas and adapts designs based on feedback.
- » Transforms text commands (prompts) into a real website.





1 AI Tools for Website Creation:

- » Wegic.ai: Easy to use, free plan, student-friendly.
- » Jimdo Dolphin: Mobile-friendly, modern design, no technical skills needed.

2 Steps to Create a Website using Wegic.ai:

- 1 Log in and create an account.
- 2 Define website type, name, and content (school club, blog, hobbies, etc).
- 3 Choose design style and colors (2–3 max, harmonized).
- 4 Add essential pages (Home, About Us, Activities, Contact Us).
- 5 Insert content (text, images, galleries, contact forms).
- 6 Customize design, colors, fonts, and photos.

3 Tips for a Successful Website:

- » Keep it simple, clear, and mobile-friendly.
- » Use safe contact methods (email with permission, forms, QR codes).
- » Avoid sharing personal information online.
- » Update content regularly to keep the site fresh.

4 Activities & Projects:

- » Plan your website (topic, pages, colors, content, audience).
- » Create and adjust using AI tools.
- » Present to classmates, gather feedback, and improve.
- » Future projects: school magazine, digital art gallery, class project platform, science blog.

1 Choose the correct answer from the following:

- 1 Systems that combine robotics, IoT, and AI are called.....
 - A. Traditional systems
 - B. Intelligent interconnected systems
 - C. Manual systems
 - D. Mechanical systems
- 2 The primary role of sensors in IoT is.....
 - A. Sending text messages
 - B. Repairing networks
 - C. Collecting and linking data
 - D. Manually operating devices
- 3is considered an innovative solution to reduce waste at home.
 - A - Throwing waste in the streets.
 - B - Not caring about this order.
 - C - Increasing waste.
 - D - The use of robots to sort waste.
- 4 One of the major challenges facing the widespread implementation of smart systems.....
 - A - High cost and maintenance requirements.
 - B - Increased speed.
 - C - Reduced efficiency.
 - D - Not needed.
- 5 Which of the following is an example of ransomware?
 - A. A program that displays spam ads.
 - B. A program that encrypts your files and demands a ransom to decrypt them.
 - C. A program that cleans temporary files on your device.
 - D. A program that helps you organize your files.



- 6 What is the primary goal of a distributed denial of service (DDOS) attack?
- A. Stealing user data.
 - B. Disabling a website or online service.
 - C. Disseminating false information.
 - D. Spying on user communications.
- 7 The term security updates means.....
- A. Changing the appearance of the operating system.
 - B. Adding new features to the software.
 - C. Fixing security vulnerabilities in the software and hardware.
 - D. Accelerating the performance of applications.
- 8 Botnets used in DDOS attacks are called.....
- A. Advanced artificial intelligence programs.
 - B. Superfast computers.
 - C. A group of secure servers.
 - D. A network of hacked devices that are remotely controlled.
- 9is an example of Types of Big Data
- A - Geometric Data B - Formal Data
 - C - Structural Data D - Pivotal Data
- 10 Which of the 5 Vs of Big Data indicate the reliability and quality of the data, as it may contain errors or inaccurate information? Data sometimes contains errors.
- A - Volume B- Velocity
 - C - Value D- Veracity
- 11 What is the first stage of big data processing?
- A- Data storage. B- Data cleaning.
 - C- Big data collection. D- Data analysis.
- 12 Which of the following uses of big data relies on understanding customer behavior and improving recommendations using advanced analytics?
- A- Artificial intelligence.
 - B- Machine and deep learning.
 - C- Network monitoring and cybersecurity.
 - D- E-commerce.

- 13 Which of the following is an example of an advanced artificial intelligence application that relies on huge collections of images and videos to train its models?
- A- Natural Language Processing (NLP)
 - B- Computer Vision
 - C- Big Data Collection
 - D- Task Automation
- 14 Big data helps machine learning algorithms automate tasks in areas such as:
- A- Customer Service
 - B- Logistics
 - C- Financial Services
 - D- All of the above
- 15 What is meant by the principle of ease of navigation in user experience design?
- a. That the colors are bright and cheerful on all pages.
 - b. That the user can easily and quickly access what they are looking for.
 - c. That the website contains the largest possible number of pages.
 - d. That the menus are placed differently on each page for a fresh experience.
- 16 What is meant by the principle of consistency in interface design?
- a. That the shapes and colors of the buttons change on each page.
 - b. That the elements are displayed randomly to attract attention.
 - c. That there is variation in page design to avoid monotony.
 - d. That the interface maintains the same style and shape for the buttons and elements on all pages.
- 17 Which of the following examples illustrates the use of inconsistent colors in UI design?
- A. Using simple color gradients.
 - B. Using complementary colors from the color wheel.
 - C. Using many bright, different colors randomly.
 - D. Using white as the primary color with a calm secondary color.
- 18 Which of the following is a fundamental principle in user interface (UI) design?
- A. Making all buttons the same size and shape.
 - B. Choosing harmonious colors that are easy on the eyes.
 - C. Providing multiple ways to accomplish the same task.
 - D. Ensuring that text is unreadable.



- 19 To format the appearance of web pages, we use
a. HTTP b. DOC c. XLSX d. CSS
- 20 One of the benefits of CSS is:
A. Increased cost
B. Ease of modification and loading
C. An unsuitable appearance for the page.
D. Inability to control colors and fonts.
- 21 Predicting future weather using big data is an example of
a. cybersecurity b. machine learning
c. NLP d. cleaning
- 22 Big data improves AI by reducing the
a. benefit b. collection c. storage d. overfitting
- 23 If an app or website is easy to use, it leads to user
a. Frustration b. Confusion c. Satisfaction d. Abandonment
- 24 Interface fonts should be
a. complex and decorative
b. small and ornate
c. legible and appropriate to context
d. difficult to read
- 25 Removing errors and duplication is called data
a. storage b. analysis c. cleaning d. extraction
- 26 big data storage usually happens in
a. clouds b. servers c. USB d. a or b
- 27 creates algorithms that mimic human intelligence.
a. AI b. IoT c. E-commerce d. None of them
- 28 NLP applications require processing
a. images b. text datasets c. maps d. audio only
- 29 A machine learning model trained on more data will usually
a. learn slower b. be less accurate
c. be more accurate d. forget patterns
- 30 Predicting customer behavior with AI is called
a. cleaning b. extraction
c. predictive analytics d. storage

- 31 The general syntax of CSS code is
- a- selector {property:value}; b- value { property:selector};
 c- property {value: selector}; d- selector{property}
- 32 One of the ways through which CSS formats can be incorporated into HTML code
- a- Selector b- Responsive c- Href d- External CSS
- 33 The tag used to define the title shown in the browser's title bar is
- a- <body> b- <div class>="" c- <title> d. section>
- 34 The tag <h2> Basic Information </h2> represent
- a- The main title of the page
 b- A subtitle of the Page
 c- The bottom part of the page
 d- It does not represent anything on the page
- 35 The W3C created CSS to solve the problem in HTML.
- a. content b. scripting c. security d. formatting
- 36 External CSS files are linked to HTML pages using the tag.
- a. <body> b. <div> c. <style> d. <link>
- 37 The <title> tag defines the title that appears in the bar.
- a. address b. report c. browser d. navigation
- 38 The <body> tag contains the that appears to the user.
- a. metadata b. script c. content d. links
- 39 The <header> tag defines the of the page or container.
- a. bottom b. top c. middle d. side
- 40 The <footer> tag typically contains or contact information.
- a. main content b. images c. navigation d. copyright
- 41 What has made creating websites much easier now?
- a. The increase in the number of programmers
 b. The use of artificial intelligence technologies
 c. The decrease in the price of computers
 d. The disappearance of programming languages
- 42 An example of an AI tool that helps in building websites is
- a. Paint b. Word c. Wegic.ai d. Calculator



- 43 A successful website should have a design.
a. complex b. cluttered c. simple d. random
- 44 When using AI tools to build a website, do you need to be a programming expert?
a. Yes, you must be a professional.
b. Yes, you need some experience.
c. No, you don't need advanced programming experience.
d. Only if you want a complex website.
- 45 Which of the following is NOT considered contact information that might be added to a website?
a. Email b. Social media link
c. Phone number d. Designer's name
- 46 What does an "Image Page" add to your website?
a. Introductory text b. Contact information
c. Attractive visual elements d. Audio clips
- 47 Why is it important for prompts to be simple and clear?
a. To reduce the size of the website
b. To help AI better understand your request
c. To increase the number of visitors
d. To save time when publishing
- 48 It is important to use contact information when creating websites.
a. personal b. public c. safe d. unlimited
- 49 The main goal of using AI in website building in our lesson is to
a. transform you into a professional web developer
b. introduce you to the capabilities of AI in website building
c. save money on programmers
d. create gaming websites only
- 50 What are the scripts we write to an AI tool to create a website called?
a. Code b. Descriptive Images
c. Prompt d. URL

2 Put (✓) or (X) in Front of the following sentences:

- 1 Robots assist in agriculture by automatically watering plants. (....)
- 2 The primary function of artificial intelligence is to transmit data only. (....)
- 3 CSS can be used to change the font size and colour. (....)
- 4 Choosing colours and design at the beginning of work is not important. (....)
- 5 Intelligent systems are unable to cope with melting ice. (....)
- 6 AI is used in decision-making for implementation by robotics in intelligent systems. (....)
- 7 AI helps manage energy in smart homes by analyzing usage patterns and saving energy. (....)
- 8 Smart systems help reduce pollution from factories by shutting them down. (....)
- 9 Intelligent systems improve the efficiency of self-driving cars by increasing fuel consumption. (....)
- 10 One of the proposed smart solutions to address the drought problem is to rely solely on rain. (....)
- 11 User Experience (UX) only refers to the quality of services provided by websites and does not include applications. (....)
- 12 The principle of clarity in the interface requires presenting information in an easily understandable way. (....)
- 13 When you enter a restaurant to eat, the restaurant's decor, colors, and interface are (UX), while the quality of the food is (UI). (....)
- 14 Intelligent systems enable you to transform a regular hospital into a smart hospital by linking technical devices to IoT and using AI to diagnose diseases and assist patients. (....)
- 15 One of the drawbacks of using robots is the inability to provide emotional support for elderly caregivers like humans. (....)
- 16 Social engineering relies on exploiting vulnerabilities in technical systems. (....)
- 17 Sharing your personal information with anyone you trust online is safe. (....)
- 18 Tricking people into revealing their information is a social engineering technique. (....)



- 19 Ransomware permanently damages your device. (....)
- 20 Disrupting a website or internet service by sending massive amounts of spam is called baiting. (....)
- 21 Spear phishing targets the personal information of specific individuals. (....)
- 22 Ransomware encrypts files and demands a ransom to recover them.(....)
- 23 Detecting and removing malware from a computer is called Pretexting.(....)
- 24 Botnets used in DDoS attacks are compromised devices controlled by the attacker to Send massive amounts of fake requests to the targeted server. (....)
- 25 Ransomware is only spread via email, not through malicious websites.(....)
- 26 Big data is defined as a large and complex data set that cannot be processed efficiently using traditional technology such as Excel. (....)
- 27 Semi-structured data is a combination of structured and unstructured data, such as emails. (....)
- 28 Digital content (videos, images, audio content) that is downloaded or viewed does not generate big data . (....)
- 29 Devices connected to the Internet are considered a source of big data.(....)
- 30 Variety refers to the vast amount of data collected and stored . (....)
- 31 Financial data generated from electronic payments and banking transactions is considered unreliable data. (....)
- 32 Artificial intelligence technologies help humans process and analyze massive amounts of big data and extract value from it. (....)
- 33 The stages of processing and storing big data begin with cleaning the data first to ensure it is error-free before collection. (....)
- 34 Big data can be stored in large databases which can be located on servers or cloud systems . (....)
- 35 After analyzing big data, information is extracted that can be used to make strategic decisions. (....)
- 36 Natural Language Processing (NLP) models such as GPT do not need huge text datasets to learn, understand, and generate human language. (....)
- 37 Using decorative fonts frequently improves the clarity of text in UI design. (....)

- 38 Ease of use does not affect user satisfaction with the digital product. (....)
- 39 An external CSS file is inserted into HTML using the <link> tag. (....)
- 40 The browser loads the external CSS file only once and then uses the saved version. (....)
- 41 Internal CSS is often used in large websites to maintain constant styling. (....)
- 42 CSS language cannot be used to style the content of web pages. (....)
- 43 The importance of websites is limited to large companies only. (....)
- 44 The "About Us" page is used to display images of your activities. (....)
- 45 The <footer> element often contains copyright information. (....)
- 46 HTML is used to describe the appearance of web pages only. (....)
- 47 One of the benefits of CSS is that it is used to design the structure and content of the page. (....)
- 48 The tag is still the preferred method for formatting text in modern HTML pages. (....)
- 49 Creating a website using AI requires you to write complex codes. (....)
- 50 A website's main menu with clear buttons is an example of good navigation design. (....)

Answers

1

- 1 b 2 c 3 d 4 a 5 b 6 b 7 c 8 d 9 c 10 d
 11 c 12 d 13 b 14 d 15 b 16 d 17 c 18 b 19 d 20 b
 21 b 22 d 23 c 24 c 25 c 26 d 27 a 28 b 29 c 30 c
 31 a 32 d 33 c 34 b 35 d 36 d 37 c 38 c 39 b 40 d
 41 b 42 c 43 c 44 c 45 d 46 c 47 b 48 c 49 b 50 c

2

- 1 T 2 F 3 T 4 F 5 F 6 T 7 T 8 F 9 F 10 F
 11 F 12 T 13 F 14 T 15 T 16 F 17 F 18 T 19 F 20 F
 21 T 22 T 23 F 24 T 25 F 26 T 27 T 28 F 29 T 30 F
 31 F 32 T 33 F 34 T 35 T 36 F 37 F 38 F 39 T 40 T
 41 F 42 F 43 F 44 F 45 T 46 F 47 F 48 F 49 F 50 T

MODEL (1)**1 Choose the correct answer:**

- 1 Data involves dealing with errors or duplication.
a. collection b. storage c. cleaning d. analysis
- 2 What is the primary focus of User Experience (UX) design?
a. The visual appeal of the design.
b. The usability and effectiveness of the product.
c. The colors and fonts used in the design.
d. The website's loading speed.
- 3 What is the primary purpose of creating a website?
a. Playing games only.
b. Communicating and displaying information to the world.
c. Storing personal files.
d. Sending text messages only.
- 4 Which of the following technologies allow(s) devices to connect to the internet and exchange data?
a. AI b. Robotics c. IoT d. VR
- 5 is a type of malware that encrypts files and demands money for access.
a. Phishing b. Ransomware c. Botnet d. DDoS
- 6 After AI creates the basic structure of the website, what can you do?
a. Nothing, it can't be modified.
b. I can make minor changes to the design and text.
c. I can recreate the website from scratch.
d. I can delete the entire website.
- 7 How can robots be integrated into education using smart systems?
a. By completely replacing teachers.
b. By ignoring students' needs.
c. By stopping all educational activities.
d. By helping students solve questions and providing interactive explanations

2 Put (T) or (F):

- 1 Ransomware permanently damages your device. ()
- 2 Smartphones do not generate big data. ()
- 3 Structured data is data that comes in an unstructured form, such as customer data and financial data. ()
- 4 The process of processing big data does not require storing that data. ()
- 5 Advanced AI applications include predictive analytics and computer vision. ()
- 6 User Experience (UX) design focuses primarily on the appearance of the product, not how it is used. ()
- 7 The CSS language was created to facilitate the formatting of web pages and to separate the formatting from the content. ()
- 8 Internal CSS is best used on large websites to standardize formatting. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 Recently, to create a website that showcases your ideas to the world, you just need
- 2 User Experience (UX) design primarily focuses on making a product
- 3 In DDoS attacks, a network of compromised devices is called
- 4 In a smart car breakdown, shares data and location, AI, and perform the repairs or field assistance.
- 5 User Interface (UI) design primarily focuses on making a product

MODEL (2)**1 Choose the correct answer:**

- 1 If a car is equipped with IoT and AI, what can it do when a malfunction occurs?
 - a. Send a message to the maintenance center with the location.
 - b. Turn off without informing the driver.
 - c. Wait until the driver detects the fault.
 - d. Shut down all systems.
- 2 What is the primary focus of User Interface (UI) design?
 - a. Ease of navigation within the application.
 - b. User satisfaction with the product.
 - c. The visual appeal of the product.
 - d. The logical organization of information.
- 3 What has made creating websites much easier now?
 - a. The increase in the number of programmers.
 - b. The use of artificial intelligence technologies.
 - c. The decrease in the price of computers.
 - d. The disappearance of programming languages.
- 4 What is the primary goal of a distributed denial-of-service (DDoS) attack?
 - a. Stealing user data.
 - b. Disabling a website or online service.
 - c. Spreading false information.
 - d. Spying on user communications.
- 5 If the soil is dry, how can smart systems in agriculture react?
 - a. Ignore the problem.
 - b. Reduce the amount of water.
 - c. Send a message to the farmer without taking any action.
 - d. Irrigate the soil automatically.

- 6 Why is it important for prompts to be simple and clear?
- To reduce the size of the website.
 - To help AI better understand your request.
 - To increase the number of visitors.
 - To save time when publishing.
- 7 What is the suggested smart solution to address the problem of drought in agriculture?
- Using IoT to measure soil moisture, AI to calculate the required amount of water, and robots for automatic irrigation.
 - Increasing water irrigation without analysis.
 - Stopping agriculture completely.
 - Relying only on rainfall.

2 Put (T) or (F):

- Distributed denial-of-service (DDoS) attacks target only one device. ()
- Your mobile phone constantly tracks your geographic location and collects data about the places you visit and the apps you use. ()
- Unstructured data is data that does not come in a structured form such as tables or databases. ()
- Data cleaning means dealing with errors, duplication, or incorrect data. ()
- AI does not use big data to understand customer interactions with products and services. ()
- User Interface (UI) design is concerned with making the product easy to use and effective. ()
- One of the benefits of CSS is that it is used to design the structure and content of a page. ()
- CSS makes it easy to modify the appearance of all linked pages at once. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 A targeted is an advanced type of phishing that targets specific individuals.
- 2 A tool like works based on the text you write.
- 3 A fundamental principle of UX design is providing a clear for the user to navigate between pages.
- 4 The prompt is the we enter into the AI tool.
- 5 When choosing a for a user interface, it should be pleasing to the eye and easy to read.

MODEL (3)

1 Choose the correct answer:

- 1 How can smart systems help reduce pollution?
 - a. By increasing vehicle exhausts.
 - b. By ignoring the problem.
 - c. By shutting down all factories.
 - d. By monitoring air quality and suggesting solutions.
- 2 Which of the following is a fundamental principle of User Experience (UX) design?
 - a. Using decorative fonts to attract the attention.
 - b. Providing clear and easy navigation for the user.
 - c. Using as many colors as possible.
 - d. Placing as much information on a single page as possible.
- 3 Which of the following is considered a social engineering technique?
 - a. Using programs to crack passwords.
 - b. Tricking people into revealing their information.
 - c. Sending viruses via email.
 - d. Exploiting software vulnerabilities.

- 4 An example of an AI tool that helps in building websites is
a. Paint b. Word c. wegi.ai d. calculator
- 5 How can robots help in floods?
a. By increasing the water level.
b. By closing all roads for no reason.
c. By draining water or rescuing people.
d. By ignoring warnings.
- 6 How can a regular hospital be transformed into a smart hospital using smart systems?
a. By removing all medical devices.
b. By stopping all medical services.
c. By linking medical devices to IoT, using AI to diagnose patients, and robots to assist in operations.
d. By relying only on staff.
- 7 The main goal of using AI in website building is to
a. transform you into professional web developers.
b. introduce you to the capabilities of AI in website building.
c. save money on programmers.
d. create gaming websites only.

2 Put (T) or (F):

- 1 Social engineering relies on exploiting vulnerabilities in technical systems. ()
- 2 Digital content such as videos generates big data. ()
- 3 Semi-structured data is a hybrid of structured and unstructured data. ()
- 4 Creating a website using artificial intelligence requires you to write complex codes. ()
- 5 Big data helps machine learning algorithms recognize patterns and make decisions without human interference. ()

- 6 One of the principles of UI design is to provide clear and easy navigation for the user. ()
- 7 An external CSS file can be used to format a large number of HTML pages at once. ()
- 8 Formatting HTML elements with CSS makes a page more organized and attractive. ()

3 Write the correct terminology:

- 1 It is a design process aimed at making a digital product easy, useful, and enjoyable to use for the user. (.....)
- 2 It is the process of designing the visual elements of an application or website in an attractive, organized, and easy-to-understand manner. (.....)
- 3 It is a principle in UX design that refers to the importance of helping the user easily find what they are looking for within a product. (.....)
- 4 It is the phenomenon caused by the increased harmful gases like carbon dioxide from factories and cars, leading to rising temperatures. (.....)
- 5 It is a type of malware that encrypts your files or locks your devices, and demands money to restore access. (.....)

1 Choose the correct answer:

- 1 What is the main role of sensors in IoT?
 - a. Sending text messages.
 - b. Manually operating devices.
 - c. Repairing networks.
 - d. Collecting and transferring data.
- 2 Which of the following is a fundamental principle of User Interface (UI) design?
 - a. Making all buttons the same size and shape.
 - b. Choosing colors that are consistent and pleasing to the eye.
 - c. Providing multiple ways to accomplish the same task.
 - d. Ensure that all text is unreadable.
- 3 When using AI tools to build a website, do you need to be a programming expert?
 - a. Yes, you must be a professional.
 - b. Yes, you need some experience.
 - c. No, you don't need advanced programming experience.
 - d. Only if you want a complex website.
- 4 What action can AI take when it detects increased air pollution?
 - a. Ignore the data.
 - b. Send warnings to residents and reduce factory emissions.
 - c. Increase pollution intentionally.
 - d. Turn off all devices.
- 5 What does the term "security updates" mean?
 - a. Changing the appearance of the operating system.
 - b. Adding new features to the software.
 - c. Fixing security vulnerabilities in software and hardware.
 - d. Speeding up applications' performance.

- 6 What is the smart solution to reduce traffic congestion in major cities?
- Increasing the number of cars.
 - Using IoT to monitor traffic, AI to analyze data and direct cars, and robots to manage traffic lights.
 - Closing all roads.
 - Ignoring the problem.
- 7 What are some innovative solutions to reduce waste in homes?
- Using robots to automatically sort waste, IoT to monitor quantities, and AI to suggest recycling routes.
 - Increased waste.
 - Dumping waste on the streets.
 - Inattention.

2 Put (T) or (F):

- Sharing your personal information with anyone you trust online is always safe. ()
- Videos, images, and audio content uploaded or viewed online do not generate big data. ()
- Information extraction takes place before data analysis. ()
- Big data improves task automation in areas such as customer service, logistics, and finance. ()
- Using decorative fonts extensively improves the legibility of text in the UI design. ()
- The tag is still the preferred method for formatting text in modern HTML pages. ()
- In CSS code, the Selector defines properties such as color and size. ()
- The importance of websites is limited to large companies only. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 tricks people to reveal confidential information or perform insecure actions.
- 2 is used to describe the content of a web page.
- 3 models, like GPT, need huge text datasets to learn and generate human language accurately.
- 4 is about considering how people use the application or website.
- 5 means that the user can quickly and effortlessly find what they are looking for on a website.

MODEL (5)

1 Choose the correct answer:

- 1 How can robots help in agriculture?
 - a. By automatically watering plants.
 - b. By selling crops.
 - c. By shutting down farms.
 - d. By storing water only.
- 2 What does the principle of consistency mean in UX/UI design?
 - a. Use different elements on each page to make it stand out.
 - b. Maintain a consistent style for elements throughout the product.
 - c. Change the website design frequently to keep users interested.
 - d. Use random fonts and colors.
- 3 How can smart systems improve the quality of life in cities?
 - a. By increasing pollution.
 - b. By shutting down all services.
 - c. By improving services such as transportation, health, and energy management.
 - d. By ignoring the needs of the inhabitants.

- 4 What are the scripts we write to an AI tool to create a website called?
 a. Codes b. Descriptive images c. Prompts d. URLs
- 5 How are the botnets used in DDoS attacks?
 a. Advanced artificial intelligence programs.
 b. A network of compromised devices that are remotely controlled.
 c. Superfast computers. d. A group of secure servers.
- 6 What is the main difference between IoT and AI?
 a. AI connects to the internet, while IoT analyzes data.
 b. IoT builds robots, while AI repairs them.
 c. IoT connects to the internet, while AI analyzes data.
 d. There is no difference between them.
- 7 How can the role of artificial intelligence in education be evaluated?
 a. It completely replaces teachers.
 b. It is not useful. c. It reduces students' interaction.
 d. It is a tool to enhance the learning experience and provide personalized explanation.

2 Put (T) or (F):

- 1 Big data can be easily processed using Excel. ()
- 2 Governments generate data through population registers, statistics, tax data, and censuses. ()
- 3 Emails are a good example of structured data. ()
- 4 Machine learning and deep learning do not require big data. ()
- 5 Big data is not the raw material that feeds artificial intelligence. ()
- 6 Consistency in design means using the same style for elements throughout the product. ()
- 7 An external CSS file is embedded in HTML using the tag. ()
- 8 The body element in CSS can change the background of the entire page. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 The first step in creating a website with AI is to define the of the website.
- 2 Maintaining in the design of elements such as buttons and icons creates a sense of professionalism and consistency.
- 3 An program helps detect and remove malware from your device.
- 4 To add a place to display your images on the website, you can ask the AI to add a section for
- 5 Attempts to steal your personal information via fake emails are called

MODEL (6)

1 Choose the correct answer:

- 1 Why is artificial intelligence important in intelligent systems?
 - a. Because it analyzes data and makes intelligent decisions.
 - b. Because it manufactures devices.
 - c. Because it repairs broken devices.
 - d. Because it provides free internet.
- 2 Why is usability important in UX design?
 - a. To make the design look more professional.
 - b. To increase user satisfaction and interaction with the product.
 - c. To reduce the cost of product development.
 - d. To make the product run faster.
- 3 If you want to make your website about a sports club, which prompt is the most appropriate first step?
 - a. Choose a blue design.
 - b. Add a contact page.
 - c. Create a website for a sports club.
 - d. Add pictures of books.

- 4 Why are robots considered an important part of intelligent systems?
- Because they completely replace humans.
 - Because they perform mechanical or motor tasks based on AI decisions.
 - Because they operate without an internet connection.
 - Because they only analyze data.
- 5 If you were asked to design a robot to assist the elderly, what features would you add?
- The ability to remind them of their medication times and call for help in emergencies.
 - The ability to clean only.
 - The ability to play only.
 - Not communicating with them.
- 6 What is the evidence that smart systems are successful in agriculture?
- Increasing water waste.
 - Improving crops and reducing waste through smart irrigation and precise monitoring.
 - Neglecting farms.
 - No results found.
- 7 What is the biggest challenge in implementing smart systems on a large scale?
- High cost and maintenance requirements.
 - Increased speed.
 - Decreased efficiency.
 - Unnecessary.

2 Put (T) or (F):

- 1 Big data analysis allows analysts, researchers, and entrepreneurs to make better and faster decisions. ()
- 2 Satellites and GPS devices collect data about geographic locations, roads, and the environment. ()

- 3 Big data has no role in the development and effectiveness of artificial intelligence. ()
- 4 Big data is used to monitor networks and cybersecurity. ()
- 5 AI is just a set of theoretical algorithms that are incapable of learning or delivering real value without big data. ()
- 6 Ease of use does not affect user satisfaction with the digital product. ()
- 7 The browser loads the external CSS file only once and then uses the saved copy. ()
- 8 CSS makes it impossible to make a design responsive to different screen sizes. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 The 5Vs of big data are,,,, and
- 2 When IoT, AI, and robotics work together, this is called
- 3 data is organized and arranged in tables with rows and columns, similar to traditional databases
- 4 is an advanced social engineering method where the attacker creates a fake story to trick the victim.
- 5 is an AI applications, such as face recognition and object detection, that rely on massive datasets of images and videos to train their models.

MODEL (7)**1 Choose the correct answer:**

- 1** Why is artificial intelligence important in intelligent systems?
 - a.** Because it analyzes data and makes intelligent decisions.
 - b.** Because it manufactures devices.
 - c.** Because it repairs broken devices.
 - d.** Because it provides free internet.
- 2** Why is visual appeal important in UI designs?
 - a.** To make the product easy to use.
 - b.** To better organize information
 - c.** To leave a good first impression with the user.
 - d.** To make the product compatible with all devices.
- 3** To add information about yourself or the topic of your website, which page do you most often create?
 - a.** Contact page
 - b.** Photo page
 - c.** About Us page
 - d.** Home page
- 4** How can intelligent systems help fight melting ice?
 - a.** By increasing the temperature.
 - b.** By melting the ice more quickly.
 - c.** By ignoring the problem.
 - d.** By monitoring the melting rate and proposing solutions.
- 5** What is the main drawback of using robots in elderly care?
 - a.** Inability to provide emotional support like humans.
 - b.** Increased efficiency.
 - c.** Time saving.
 - d.** Cost reduction.
- 6** What is the most balanced view about the future of smart systems?
 - a.** They will completely replace humans in all areas.
 - b.** They will be life-enhancing tools with ethical controls.
 - c.** They will be completely useless.
 - d.** They will only increase problems.

- 7 What do IoT, AI, and robotics have in common in smart systems?
- They all operate independently without connectivity.
 - There is no commonality.
 - They are limited to large industries only.
 - They integrate to create smart systems capable of communication, analysis, and implementation.

2 Put (T) or (F):

- Internet-connected devices are a source of big data. ()
- The characteristics of big data include volume and value. ()
- AI technologies help in processing and analyzing big data. ()
- E-commerce platforms rely on big data to understand customer behavior. ()
- The visual appeal of the UI can affect the user's first impression. ()
- The rel= stylesheet attribute is used when linking a CSS file to an HTML file. ()
- Writing a formatting code within each HTML page is more efficient than using external CSS. ()
- The prompt is the text command you give to the artificial intelligence to understand your request. ()

3 Complete the following sentences with the appropriate words or phrases:

- The About Us page is used to provide an introductory about the website's topic.
- A program encrypts your files and demands a ransom to recover them.
- Text commands should be simple and for the AI to understand.
- A attack aims to disable a website or online service by sending massive amounts of requests.
- The art of tricking people into giving up confidential information is called

MODEL (8)**1 Choose the correct answer:**

- 1 In a smart car breakdown, perform(s) repairs or field assistance.
a. IoT b. AI c. robotics d. GPS
- 2 How does IoT help in a smart home?
a. By shutting down all devices. b. By repairing broken devices.
c. By connecting devices to the internet to control them.
d. By manually operating devices.
- 3 Which of the following examples illustrates a confusing navigation design?
a. A main menu with clear buttons.
b. A search bar in a prominent location.
c. A list of overlapping, unorganized items.
d. Clear links at the end of the page.
- 4 Why is it important to determine the colors and overall design of the website at the beginning of work?
a. So that the icons appear better.
b. To customize the basic appearance of the website.
c. To increase the website speed. d. To attract more programmers.
- 5 What is the potential drawback of fully relying on IoT for smart systems?
a. Reducing the efficiency of devices.
b. Increasing the internet speed.
c. Inability to make decisions without AI. d. No need for robots.
- 6 How can an early warning system for natural disasters be developed using smart systems?
a. By ignoring the data.
b. By waiting until the disaster occurs.
c. By shutting down all systems.
d. By connecting sensors to the IoT, using AI to predict disasters, and sending warnings via robots.

- 7 is the design principle that involves maintaining the same *style* throughout a website
- a. Clarity b. Navigation c. Consistency d. Layout

2 Put (T) or (F):

- 1 All data collected through social media is documented. ()
- 2 The speed of data generation is not a characteristic of big data. ()
- 3 One of the stages of big data processing is data cleaning. ()
- 4 Big data does not allow models to be trained on a wide range of scenarios and conditions. ()
- 5 A main menu with clear buttons is an example of a good navigation design. ()
- 6 An external CSS file can contain HTML tags. ()
- 7 Separating formatting from content helps speed up the editing and updating processes. ()
- 8 After the website is created by artificial intelligence, you cannot make any modifications to it. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 The stages of big data processing include,,, and
- 2 design is the way a website, app, or game appears.
- 3 does not come in a structured form and is difficult to analyze using traditional tools.
- 4 Interface is the presentation of information in a way that is easy to understand.
- 5 The text commands written for the AI tool to create websites are called

MODEL (9)**1 Choose the correct answer:**

- 1 What is the name given to systems that combine IoT, AI, and robotics?
 - a. Traditional systems
 - b. Manual systems
 - c. Mechanical systems
 - d. Interconnected intelligent systems
- 2 What does an "Image page" add to your website?
 - a. Introductory text.
 - b. Contact information.
 - c. Attractive visual elements.
 - d. Audio clips.
- 3 Which of the following examples illustrates the use of inconsistent colors in UI design?
 - a. Using simple color gradients.
 - b. Using complementary colors from the color wheel.
 - c. Using many bright, different colors randomly.
 - d. Using white as the primary color with a muted secondary color.
- 4 How can AI improve the efficiency of self-driving cars?
 - a. By increasing fuel consumption.
 - b. By analyzing traffic and making safe decisions.
 - c. By stopping the car suddenly.
 - d. By ignoring traffic signals.
- 5 How can energy efficiency in cities be improved using smart systems?
 - a. By increasing consumption.
 - b. By turning off electricity completely.
 - c. By using IoT to monitor consumption, AI to analyze data, and robots to automatically adjust appliances.
 - d. By ignoring the problem.
- 6 How can the impact of intelligent systems on the environment be evaluated?
 - a. They are not useful.
 - b. They help monitor pollution and suggest sustainable solutions.
 - c. They increase pollution.
 - d. They are simply expensive.

- 7 is an important tip for choosing colors for a website with AI
- Using many bright colors
 - Choosing clashing colors
 - Using only 2-3 harmonious colors
 - Ignoring contrast

2 Put (T) or (F):

- Financial data is not considered big data. ()
- The variety of data types includes structured data, such as databases, and unstructured data, such as text, images, and videos. ()
- The data collection stage is the process of collecting large amounts of data from various sources. ()
- Computer vision applications, such as face recognition and object detection, do not require massive datasets of images and videos to train their models. ()
- Using many different colors improves the aesthetics of the design. ()
- CSS can be used to change the font size and color. ()
- When you change formatting in an external CSS file, the appearance of the linked pages is not affected. ()
- The About Us page is used to display images of your activities. ()

3 Complete the following sentences with the appropriate words or phrases:

- is the ability of a machine to think and make decisions like a human.
- After creating the website, you can perform simple on the text and design.
- One of the most important aspects of websites in the current era is that they are a means of and displaying information.
- One CSS benefit is that it's by reusing a separate CSS file for many HTML pages.
- is a type of malware that encrypts your files or locks your devices, demanding a sum of money (a ransom) to regain access.

1 Choose the correct answer:

- 1 What is the main function of artificial intelligence (AI)?
a. Data transfer only. b. Data analysis and decision making.
c. Device manufacturing. d. Powering the internet.
- 2 connect(s) different devices to the internet to exchange data.
a. AI b. Robotics c. IoT d. VR
- 3 Which of the following is NOT considered contact information that might be added to a website?
a. Email b. Social media link
c. Phone number d. Designer's name
- 4 What is one potential downside of self-driving cars?
a. Their complete reliance on artificial intelligence may lead to errors in the event of a system failure.
b. They save energy. c. They improve road safety.
d. They reduce accidents.
- 5 language is used to format the appearance of web pages.
a. HTML b. CSS c. Python d. Java
- 6 What is an innovative function for using robots in public parks?
a. Planting and trimming trees, and cleaning parks automatically.
b. Neglecting plants. c. Increasing litter.
d. Not caring for visitors.
- 7 A smart system designed to reduce water consumption needs
a. IoT to monitor water consumption, AI to analyze, and robots to turn off taps.
b. Air conditioners only. c. Offline smartphones
d. Lighting systems

2 Put (T) or (F):

- 1 Online credit card purchases record data about the amount, store, **and** location. ()
- 2 Veracity refers to the reliability and quality of data. ()
- 3 Inline CSS is used to apply styles to all pages on a website. ()
- 4 The data collection stage is the process of collecting large amounts **of** data from various sources. ()
- 5 The role of big data in AI is to improve accuracy and performance **and** enable AI applications. ()
- 6 The HTML language is used only to describe the appearance of **web** pages. ()
- 7 Choosing colors and design at the beginning of work is not very **important**. ()
- 8 You can use wegic.ai to create a simple website using text commands. ()

3 Complete the following sentences with the appropriate words or phrases:

- 1 connects different devices to the internet to exchange data.
- 2 Using AI tools, you don't need to write any, AI will do all the **hard** work for you.
- 3 is used to train machine learning and deep learning models **that** can improve their performance over time.
- 4 is used to format the appearance of web pages such as font **color** and font size.
- 5 In a DDoS attack, the attacker uses multiple devices called **to** overload a server with requests.

Model Answers

MODEL (1)

- 1 1 c 2 b 3 b 4 c 5 b
6 b 7 d

- 2 1 F 2 F 3 F 4 F 5 T
6 F 7 T 8 F

- 3 1 AI 2 easy to use
3 botnets
4 IoT – analyzes the problem – robotics
5 attractive

MODEL (2)

- 1 1 a 2 c 3 b 4 b 5 d
6 b 7 a

- 2 1 F 2 T 3 T 4 T 5 F
6 F 7 F 8 T

- 3 1 spear phishing 2 wegic.ai
3 navigation 4 text command
5 font

MODEL (3)

- 1 1 d 2 b 3 b 4 c 5 c
6 c 7 b

- 2 1 F 2 T 3 T 4 F 5 T
6 F 7 T 8 T

- 3 1 UX design 2 UI design

- 3 Ease of navigation
4 Global warming
5 Ransomware

MODEL (4)

- 1 1 d 2 b 3 c 4 b 5 c
6 b 7 a

- 2 1 F 2 F 3 F 4 T 5 F
6 F 7 F 8 F

- 3 1 Social engineering
2 HTML 3 NLP
4 UX design
5 Ease of navigation

MODEL (5)

- 1 1 a 2 b 3 c 4 c 5 b
6 c 7 d

- 2 1 F 2 T 3 F 4 F 5 F
6 T 7 T 8 T

- 3 1 type 2 consistency
3 antivirus 4 image gallery
5 phishing

MODEL (6)

- 1 1 a 2 b 3 c 4 b 5 a
6 b 7 a

- 2 1 T 2 T 3 F 4 T 5 T
6 F 7 T 8 F

- 3 1 Volume – Velocity – Variety –
Veracity – Value

- 2 interconnected smart systems
- 3 Structured 4 Pretexting
- 5 Computer vision

MODEL (7)

- 1 1 a 2 c 3 c 4 d 5 a
6 b 7 d

- 2 1 T 2 T 3 T 4 T 5 T
6 T 7 F 8 T

- 3 1 information 2 ransomware
3 clear 4 DDoS
5 social engineering

MODEL (8)

- 1 1 c 2 c 3 c 4 b 5 c
6 d 7 c

- 2 1 F 2 F 3 T 4 F 5 T
6 F 7 T 8 F

- 3 1 collection – storage – cleaning –
analysis – information extraction
2 UI 3 Unstructured data
4 clarity 5 prompts

MODEL (9)

- 1 1 d 2 c 3 c 4 b 5 c
6 b 7 c

- 2 1 F 2 T 3 T 4 F 5 F
6 T 7 F 8 F

- 3 1 AI 2 modifications
3 communicating 4 time-saving
5 Ransomware

MODEL (10)

- 1 1 b 2 c 3 d 4 a 5 b
6 a 7 a

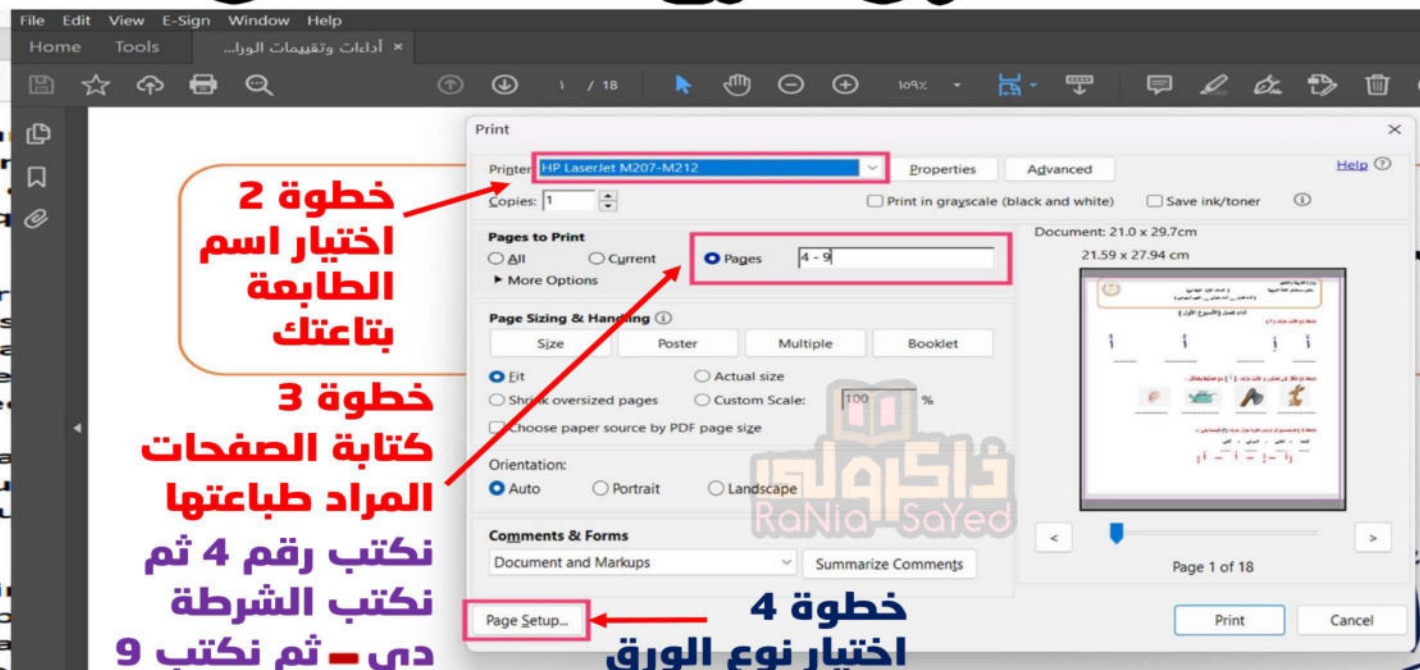
- 2 1 T 2 T 3 F 4 T 5 T
6 F 7 F 8 T

- 3 1 IoT 2 codes
3 Big data 4 CSS
5 botnets

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



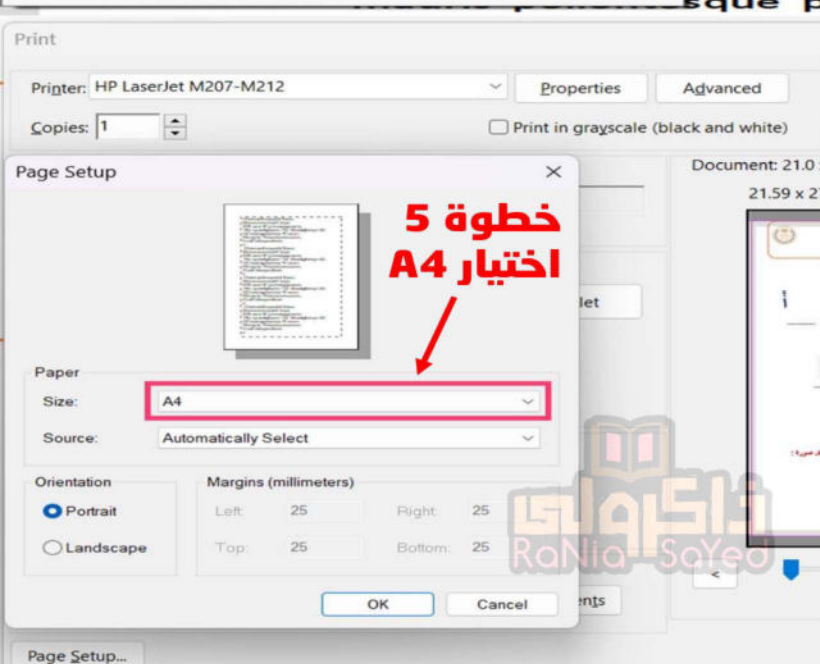
خطوة 1



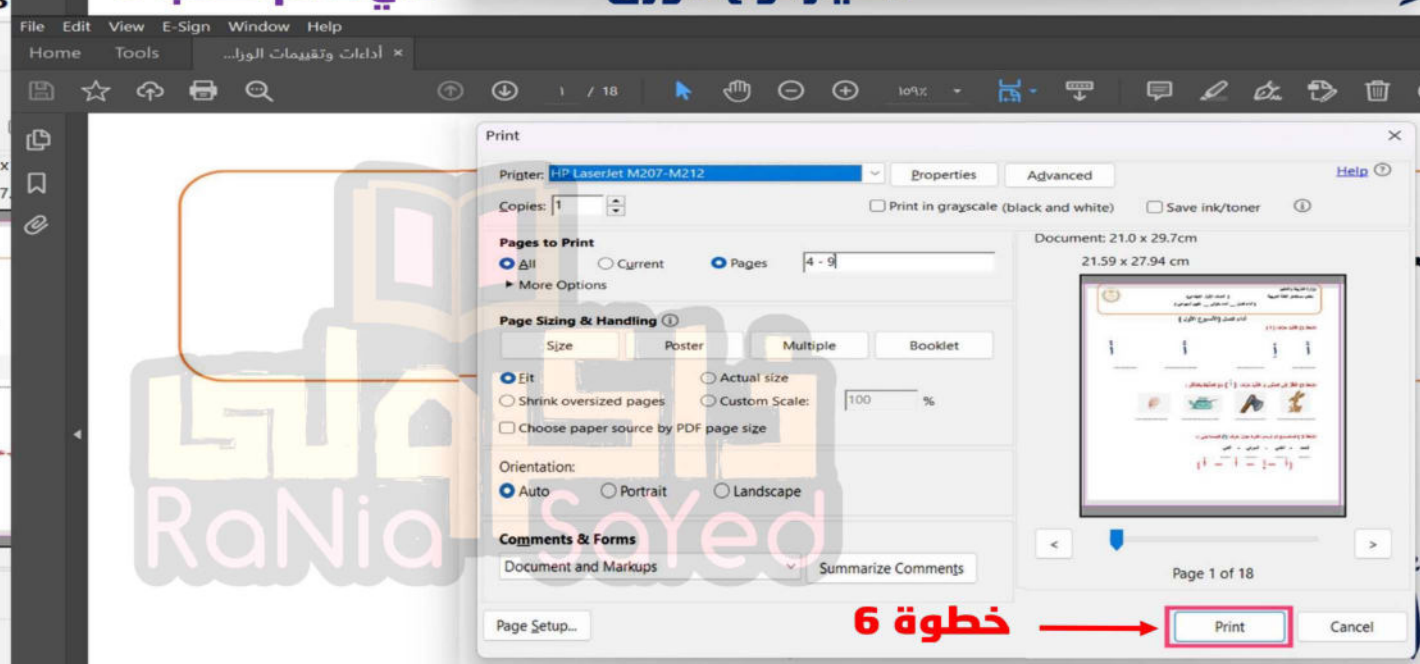
خطوة 2
اختيار اسم
الطابعة
بتاعتك

خطوة 3
كتابة الصفحات
المراد طباعتها
نكتب رقم 4 ثم
نكتب الشرطة
دي - ثم نكتب 9

خطوة 4
اختيار نوع الورق



خطوة 5
اختيار A4



خطوة 6

حمل الآن

مجاناً وحصرياً

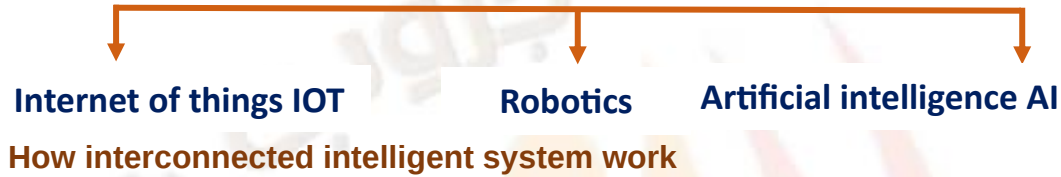
المراجعة رقم (2)

الترم الاول



Connected intelligent systems:

it is a technology that combines the three technologies together



IOT	AI	(Robotics)
Using the Internet of things, devices send data	Artificial intelligence analyzes it and makes the decision.	Then the robots carry out these decision

Important applications :**1-Smart Home:**

IOT	AI	(Robotics)
Connect the devices with Internet	Turn on the air conditional automatically .	Operating the vacuum cleaner and moving things

2-School Rabot:

IOT	AI	(Robotics)
Access to information on the Internet	Help in understanding students' questions and respond correctly	Answer question

3- smart farming :

IOT	AI	(Robotics)
Sensors transmit information about the condition of the soil	He analyzes this data to determine if the soil needs water.	It waters the plants or sprays pesticides automatically

4- Voice Assistant:

IOT	AI	(Robotics)
It is used to access information online	understands what you are saying and provides an appropriate answer	The robot is not here, because the device does not move, it only talks

5-smart cars:

IOT	AI	(Robotics)
Connects the car to satellites and maps	monitors the road and analyzes the risks (road hazards)	controls the movement of the car, such as stopping or changing direction

Intelligent systems and their impact on climate

Air pollution treatment	Environmental monitoring and pollution reduction	Combating global warming	Rationalizing water consumption and addressing drought	Flood monitoring and management	Monitoring the melting of ice at the poles
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Unit one : Lesson 2:Advanced Cyber Threats

Advanced Cyber Threats: It is a sophisticated method to harm us or steal our information. are not limited to simple viruses; they are carefully planned attacks that exploit specific vulnerabilities,

Types of Ransom ware and How It Works:



1-Ransomware 2- Social engineering 3- Distributed denial of service (DDoS)

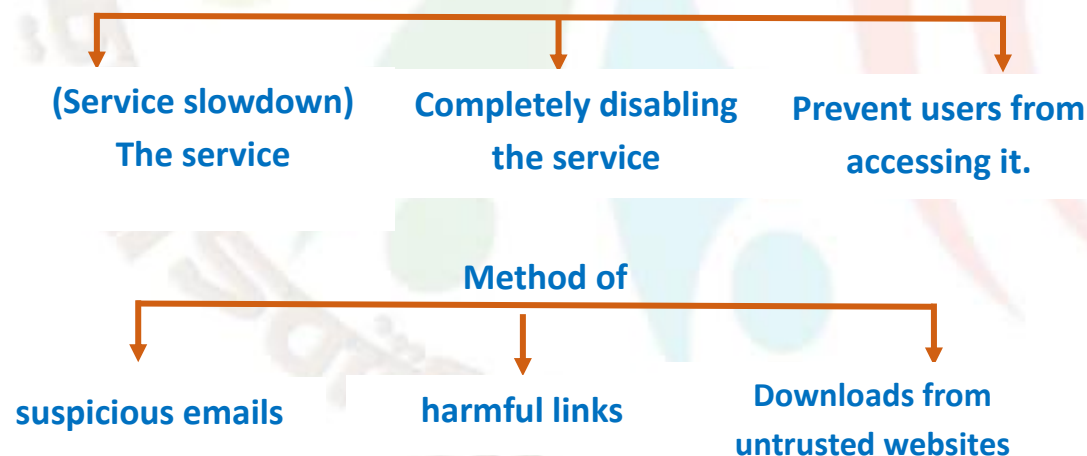
1-Ransomware: encrypts your files (making them unreadable) or locks your devices, demanding a sum of money (a ransom) to regain access.

2-social engineering: The art of deceiving people into selling them information that jeopardizes their security or leads them to reveal confidential information. As:

Spear Phishing	It targets specific individuals or organizations with highly personal
Pretexting	The attacker creates a fake story or scenario to trick the victim into obtaining information
(Baiting)	The attacker offers the victim. containing malware

2- Distributed denial of service (DDoS)

They are cyber-attacks aimed at shutting down a website or online service That is for the purpose of



Lesson 3 :Big Data

Big data is : A collection of large, complex data that cannot be efficiently processed using traditional technology

Analyzing big data allows analysts, researchers, and entrepreneurs to make better, faster decisions.

Internet connected devices	Smart refrigerators, smartwatches, connected cars
Social Media	posts, comments, photos, videos, and likes
Financial Data	Electronic payments, banking transactions, and stock trading contribute to the generation of massive amounts of data
Data from Smart Devices:	mobile phones, cameras, and smart home devices generate data about usage, location, and interactions.
The digital contents	Videos, images, and audio content uploaded or viewed online
Government data	through population registers, statistics, tax data, and censuses.
Geographic and Spatial Data	Satellites and GPS devices collect data about geographic locations, roads, and the environment

The 5Vs of Big Data:



Volume	Refers to the massive amount of data collected and stored
Velocity	Refers to the speed at which data is generated and processed
Variety	Refers to the reliability and quality of the data.
value	Refers to the usefulness that can be derived from the data

Types of big data:

Structured Data	Unstructured Data	Semi-Structured Data
organized and arranged in tables with rows and columns, similar to traditional databases.	that does not come in a structured form, such as tables or databases.	is a hybrid of structured and unstructured data. As Emails

Lesson 4 : Big Data and Its Relationship to Artificial Intelligence

Artificial intelligence relies on big data to learn and improve its performance.

The usage of Big Data

1. Mass data collection,
2. Data storage,
3. Data cleaning,
4. Data analysis, and
5. Information extraction.

The stages of big data processing are:

Artificial intelligence (Ai)	creates and designs algorithms that mimic human
Machine Learning and Deep Learning	used to train models that can improve their performance over time
Network Monitoring and Cyber security	monitor : network traffic and analyze patterns to detect
E-commerce	understand customer behavior, - improve recommendations

The Role of Big Data in Artificial Intelligence :

- A. Improving accuracy and performance and reducing errors.
- B. Enabling advanced AI applications through

1	Natural Language Processing (NLP)	4	Discovering Hidden Insights and Patterns
2	Computer Vision	5	Continuous Learning and Adaptation
3	Predictive Analytics	6	Improving User Experience and Automating Tasks

Unit 2 lesson 1 : Principles of Designing Attractive, Professional Website Interfaces

User Experience (UX) Design:

Thinking about every step the user will take and how they will feel while using it

The Importance of User Experience (UX) Design



If the app or website is easy to use,

- * the user will be satisfied and will return to use it again;
 - if it is difficult, they may abandon it forever.

Basic principles to consider in UX design:

Ease of navigation, - clarity - consistency

Ease of navigation	The user can access what they are looking for quickly and without difficulty.
clarity	Presenting information in an easy-to-understand way
consistency	Maintaining the same style throughout the application or the

User Interface (UI) Design :

The formats in which the website appears, in terms of colors, buttons, and fonts.

The Importance of UI:

Visual Appeal: A beautiful interface creates a good first impression

Another eye looking with displeasure at a disorganized and ugly design. If the interface isn't visually appealing, users won't like it

Basic Principles of User Interface (UI) Design

Colors fonts layout

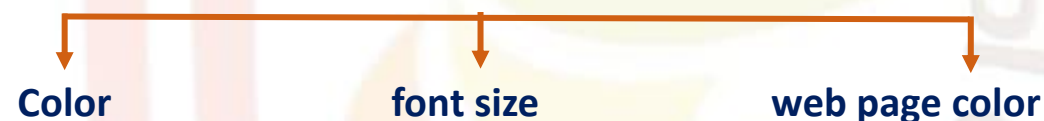
Colors	Choosing the right colors affects the user's
fonts	Interface fonts should be legible and appropriate to the context
layout	Organizing elements on the interface in a logical way makes the app or website easy to use..

When you enter a restaurant for lunch,

- the restaurant's décor, colors, and interface that attract your attention is the UI,
- while the quality of the food and service provided is the UX.

Unit 2 lesson 2 : Web Page Format

HTML is a programming language used to create static web pages
CSS language to format the appearance of web pages such as:



Benefits of CSS :

1	It saves time and effort as it can control the formatting of multiple web pages at once.
2	Separating the design and formatting of the web page content eliminates the need to change the HTML structure.
3	Building responsive pages that adapt to different screen sizes
4	Faster loading speed
5	and improved aesthetics
6	Easy editing of all linked pages.
7	Improving readability

The basic structure of CSS:



Selector {Property: Value

Selector	Property	Value
Represents an HTML element or group of elements to which formatting will be applied, such as "body."	Specifies what you want to change (e.g., color, size, spacing, etc.)	Specifies how you want to change the property.

There are three ways to insert CSS:

: External CSS	: Internal CSS	:Inline CSS
Preferably used in large websites to unify the design and layout of their pages.	Used to format individual pages.	Used to apply formatting directly to page elements

link the CSS file with the HTML page:

* CSS code is written in a separate file with the .CSS extension.

*The CSS file is **linked** to the HTML page using the tag within the **head** *The external CSS file should not contain any **HTML** tags.

The tag is written inside the HTML file as follows:

```
<link href="fileName.css" rel="stylesheet">
```

The Rel property specifies the relationship between an HTML file and an external file, which loaded and applied to the page.

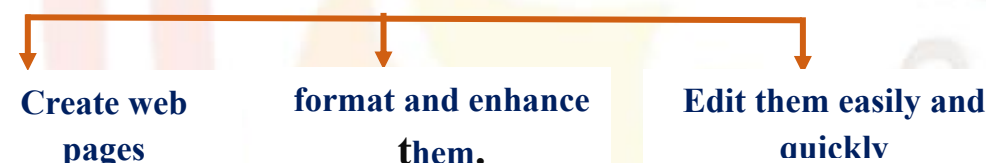
Unit 2 lesson 3 : My Digital Project for My School

Explaining the HTML code for the student data page

<Html>	The main element that contains all the content of the page
<Head>	This section contains important information for the browser, but it is not displayed within the page content itself.
<title>	It determines the colors that appear in the browser's toolbar.
<body>	Inside it s the content that appears to the user is written
<section>	Dividing the container into sections
<h2>	Subtitle for the page section
<footer>	The bottom part of the page or the margin
<p>	Create a paragraph
<div>	User as a page or section

Unit 2 lesson 4 :Creating your website with the help

Artificial intelligence has provided many tools and websites that help you:



Here are some reasons why having a website is mportant:

A platform for self-expression	A way to connect with the world
Developing future skills	Showcasing school projects

The roles of Artificial Intelligence:



The Role of Artificial Intelligence	Artificial intelligence capabilities
Computers are able to learn and think like humans.	Artificial intelligence can quickly understand what you want to accomplish.

Artificial Intelligence Tools

jimdo Dolphin •	Wegic •
An easy-to-use platform that uses artificial intelligence to generate websites based on simple information you provide. Features: • Mobile-friendly • Modern design suitable for small businesses • No technical skills required • Link: https://jimdo.com/	A tool that uses artificial intelligence to generate websites based on the commands and preferences you provide. Features: • Easy-to-use interface • Diverse design options suitable for students • Link: https://wegic.ai/

Steps to create a website using the artificial :

- 1-Go to <https://wegic.ai/app>.
- 2-Create a simple account using your email address.
- 3- Click "Get Started Now" and follow the steps.
- 4- Click on the "Build your site" option.

Your website should have the following features:

Simplicity	website compatibility with mobile phones	privacy and security	continuous updates
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Put (√) or (X)

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2. Smart systems help reduce pollution from factories by shutting them down ()
3. Robots assist in agriculture by automatically watering plants. ()
4. The primary function of artificial intelligence is to transmit data only ()
5. VR technology allows devices to connect to the internet and exchange data ()
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8. AI is used in decision–making for implementation by robotics in intelligent systems. ()
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10. One of the proposed smart solutions to address the drought problem is to rely solely on rain ()
11. Intelligent systems enable you to transform a regular hospital into a smart hospital by linking technical devices to IoT and using AI to diagnose diseases and assist patients ()
12. The inability to provide emotional support for elderly care, as humans do, is considered a disadvantage of using robots ()
13. Distributed Denial of Service (DDoS) attacks target only one device ()
14. Creating a fake story or deceptive scenario to obtain your personal information online is one of the social engineering techniques ()
15. Social engineering relies on exploiting vulnerabilities in traditional systems. ()
16. Sharing your personal information with anyone you trust online is safe ()

17. Deceiving people to reveal their information is one of the social engineering methods ()
18. Ransomware permanently damages your device ()
19. Ransomware encrypts files and demands a ransom to restore them ()
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25. Big data is defined as a large and complex set of data that cannot be efficiently processed using traditional technology such as (Excel) software ()
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27. Digital content (videos – images – audio content) that is uploaded or viewed does not generate big data ()
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29. The "Variety" characteristic refers to the vast amount of data that is collected and stored ()
30. Financial data resulting from electronic payment operations and banking transactions are considered unreliable data ()
31. Artificial intelligence technologies help humans process and analyze vast amounts of big data and extract value from it ()
32. The stages of big data processing begin with data cleaning to ensure it is free of errors before collecting and storing it ()
33. The collected big data can be stored in large databases that may be on servers or cloud systems ()

34. Big data is used to monitor network traffic and analyze patterns to detect security threats and protect systems ()
35. After analyzing big data, the process of extracting information that can be used to make strategic decisions takes place ()
36. The lower the quality, volume, and diversity of the available data, the less the ability of machine learning and deep learning models to learn and provide accurate predictions and decisions ()
37. Big data increases the accuracy and effectiveness of AI models by training them on a wide range of scenarios and reducing the problem of overfitting ()
38. Natural Language Processing (NLP) models like GPT do not require massive text datasets to learn, understand, and generate human language ()
39. Computer vision applications, such as facial recognition, rely on massive datasets of images and videos to train their models . ()
40. Real-time big data streams allow AI models to continuously learn and adapt to new data ()
41. Big data helps enable AI to analyze historical data to identify patterns and trends to make accurate predictions about future events (such as predictive analytics) ()
42. AI is just a set of theoretical algorithms incapable of learning or providing real value, even with the availability of big data. ()
43. User Experience (UX) design is thinking about how people use the app or website, and whether they can easily find what they need. ()
44. The principle of "Navigation ease" means that the user can reach what they are looking for slowly and carefully to ensure no mistakes occur ()
45. To design a new educational website or game, one must think about every step the player will take and how they will feel during the gameplay ()
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47. User Experience (UX) concerns only the quality of services provided by websites and does not include apps ()

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71. `h1>[School Name] Preparatory School </h1>` ()
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79. The code: `.container { background-color: lightcyan ;}` makes the top bar appear white within the p ()



Choose the correct answer:

1.is considered an innovative solution to reduce waste at home.

- a– Throwing waste in the streets.
- b– Not caring about the matter.
- c– Increasing waste.
- d– Using robots to sort waste.

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- a– High cost and maintenance requirements.
- b– Increased speed.
- c– Reduced efficiency
- . d– No need for them.

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- c. Manual systems
- d. Mechanical systems

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- c- A group of secure servers.
- d- A network of compromised devices controlled remotely

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- a- Artificial intelligence.** **b- Machine learning and deep learning.**
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13. Which of the following is an example of an advanced AI application that relies on massive sets of images and videos to train its models?

- a- Natural Language Processing NLP** **b- Computer Vision**
c- Big Data Aggregation **d- Task Automation**



14. Big data helps machine learning algorithms automate tasks in fields such as.....

- a– Customer Service
- b– Logistics
- c– Financial Services
- d– All of the above

15. What is meant by the principle of "Ease of Navigation" in user experience design?

- A. That the colors are bright and cheerful on all pages.
- B. That the user can easily and quickly reach what they are looking for.
- C. That the website contains as many pages as possible.
- D. That the locations of menus differ on each page for a new experience.

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- A. That the shapes of buttons and colors change on every page.
- B. That elements are displayed randomly to attract attention.
- C. That there is variation in page design to break boredom.....
- D. That the interface maintains the same style and appearance for buttons and elements on all pages.

17. Which of the following examples illustrates the use of incompatible colors in UI design?

- A. Using simple color gradients.
- B. Using complementary colors from the color wheel.
- C. Using many bright colors randomly.
- D. Using white as the primary color with a calm secondary color.

18. Which of the following is considered a basic principle in UI design?

- A. Making all buttons the same size and shape.
- B. Choosing harmonious colors that are easy on the eyes.
- C. Providing multiple ways to accomplish the same task.
- D. Ensuring that texts are unreadable.

19. The language is used to style the appearance of web pages.

- a. HTTP. b. DOC c. XLSX d. CSS

20. One of the benefits of the CSS language is

- a. Excessive cost. b. Ease of modification and loading.
c. Inappropriate appearance for the page. d. Inability to control colors and fonts.

21. The general syntax of CSS code is

- a. selector{property: value}; b. value{ property: selector };
c. property {value: selector }; d. selector{property };

22. One of the ways through which CSS formats can be incorporated into HTML code

- a. Selector b. Responsive. c. Href d. External CSS

23. The tag used to define the title shown in the browser's title bar is.....

- a. <body> b. <div class>="" c. <title> d. <section>

24. The tag <h2> Basic Information </h2> represents.....

- a. The main title of the page. b. A subtitle of the page.
c. The bottom part of the page. d. It does not represent anything on the page.

25. The code: .body {text-align: center ;} in CSS is used for

- a. Making the text bold.
b. Centering text horizontally in the middle of the page.
c. Horizontal and vertical centering of the page.
d. Making the font color light cyan.

26. The code: .header {padding: 10px ;} is used for

- a. Horizontally centering the container within the page.
b. Making the container width 8% of the page width.
c. Styling the top bar that contains the container title.
d. Adding an internal space of 10 pixels around the content.



Put (√) or (X)

1. AI helps manage energy in smart homes by analyzing usage patterns and saving energy (√)
2. Smart systems help reduce pollution from factories by shutting them down (√)
3. Robots assist in agriculture by automatically watering plants. (√)
4. The primary function of artificial intelligence is to transmit data only (X)
5. VR technology allows devices to connect to the internet and exchange data (X)
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- B. **Choosing harmonious colors that are easy on the eyes.**
- C. Providing multiple ways to accomplish the same task.
- D. Ensuring that texts are unreadable.



19. The language is used to style the appearance of web pages.

- a. HTTP. b. DOC c. XLSX d. **CSS**

20. One of the benefits of the CSS language is

- a. Excessive cost. b. **Ease of modification and loading.**
c. Inappropriate appearance for the page. d. Inability to control colors and fonts.

21. The general syntax of CSS code is

- a. **selector { property: value; }** b. value { property: selector } ;
c. property { value: selector } ; d. selector { property } ;

22. One of the ways through which CSS formats can be incorporated into HTML code

- a. Selector b. Responsive. c. Href d. **External CSS**

23. The tag used to define the title shown in the browser's title bar is

- a. <body> b. <div class>="" c. **<title>** d. <section>

24. The tag <h2> Basic Information </h2> represents

- a. The main title of the page. b. **A subtitle of the page.**
c. The bottom part of the page. d. It does not represent anything on the page.

25. The code: .body { text-align: center ; } in CSS is used for

- a. Making the text bold.
b. **Centering text horizontally in the middle of the page.**
c. Horizontal and vertical centering of the page.
d. Making the font color light cyan.

26. The code: .header { padding: 10px ; } is used for

- a. Horizontally centering the container within the page.
b. Making the container width 8% of the page width.
c. Styling the top bar that contains the container title.
d. **Adding an internal space of 10 pixels around the content.**

حمل الآن

مجاناً وحصرياً

المراجعة رقم (3)

الترم الاول



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Put a (v) in front of the correct statement and (x) in front of the incorrect statement:

1. AI helps manage energy in smart homes by analyzing usage patterns and saving energy. (v)
2. Smart systems help reduce pollution from factories by shutting them down. (X)
3. Robots assist in agriculture by automatically watering plants. (✓)
4. The primary function of artificial intelligence is to transmit data only. (X)
5. VR technology allows devices to connect to the internet and exchange data. (X)
6. AI helps detect air pollution, send warnings to residents, and reduce factory emissions. (✓)
7. Intelligent systems are unable to cope with melting ice. (X)
8. AI is used in decision-making for implementation by robotics in intelligent systems. (✓)
9. Intelligent systems improve the efficiency of self-driving cars by increasing fuel consumption. (X)
10. One of the proposed smart solutions to address the drought problem is to rely solely on rain. (x)
11. Intelligent systems enable you to transform a regular hospital into a smart hospital by linking technical devices to IoT and using AI to diagnose diseases and assist patients. (✓)
12. One of the drawbacks of using robots is the inability to provide emotional support for elderly caregivers like humans. (✓)
13. Distributed Denial of Service (DDOS) attacks target only one device. (X)
14. Creating a fake story or deceptive scenario to obtain your personal information online is a social engineering technique. (✓)
15. Social engineering relies on exploiting vulnerabilities in technical systems. (X)
16. Sharing your personal information with anyone you trust online is safe. (X)
17. Tricking people into revealing their information is a social engineering technique. (✓)
18. Ransomware permanently damages your device. (X)
19. Ransomware encrypts files and demands a ransom to recover them. (✓)
20. Detecting and removing malware from a computer is called Pretexting. (X)
21. Disrupting a website or internet service by sending massive amounts of spam is called baiting. (X)
22. Spear phishing targets the personal information of specific individuals (v)
23. Botnets used in DDoS attacks are compromised devices controlled by the attacker to Send massive amounts of fake requests to the targeted server. (v)

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24. Ransomware is only spread via email, not through malicious websites. (X)
25. Big data is defined as a large and complex dataset that cannot be efficiently processed using traditional technology such as Excel (✓)
26. Semi-structured data is a mixture of structured and unstructured data, such as emails. (✓)
27. Digital content (videos, images, audio content) that is uploaded or viewed does not generate big data. (X)
28. Internet-connected devices are considered a source of big data. (✓)
29. The property of variety refers to the enormous amount of data that is collected and stored. (X)
30. Financial data resulting from electronic payments and banking transactions is considered unreliable data (X)
31. Artificial intelligence technologies help humans process and analyze massive amounts of big data and extract value from it. (✓)
32. The stages of big data processing begin with cleaning the data to ensure it is error-free before it is collected and stored. (X)
33. Collected big data can be stored in large databases that may be on servers or cloud systems. (✓)
34. Big data is used to monitor network traffic and analyze patterns to detect security threats and protect systems. (✓)
35. After analyzing big data, information is extracted that can be used to make strategic decisions. (✓)
36. The lower the quality, volume, and diversity of the available data, the greater the ability of machine learning and deep learning models to learn and provide accurate predictions and decisions... (X)
37. Big data increases the accuracy and effectiveness of AI models by training them on a wide range of scenarios and reducing the problem of overfitting. (✓)
38. Natural Language Processing (NLP) models such as GPT do not need huge text datasets to learn, understand, and generate human Language (X)
39. Computer vision applications, such as facial recognition, rely on huge datasets of images and videos to train their models. (✓)

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40. Real-time big data streams allow AI models to continuously learn and adapt to new data. (✓)
41. Big data helps enable AI to analyze historical data to identify patterns and trends in order to make accurate predictions about future events (predictive analytics) (✓)
42. AI is just a set of theoretical algorithms incapable of learning or delivering real value, even with the availability of big data (X)
43. User Experience (UX) design is about considering how people use an application or website and whether they can easily find what they need. (✓)
44. The principle of easy navigation means that the user can reach what they are looking for slowly and carefully, ensuring no mistakes are made. (X)
45. To design a new educational website or game, you must consider every step the player will take and how they will feel while playing. (✓)
46. Consistency in interface design means maintaining the same style and shape for buttons and elements throughout the application or website. (✓)
47. User Experience (UX) only refers to the quality of services provided by websites and does not include applications. (X)
48. The principle of clarity in the interface requires presenting information in an easy-to-understand way (✓)
49. Planning the design of a website or application interface means organizing the interface elements in a way that makes it easier to use. (✓)
50. When you enter a restaurant for lunch, the restaurant's decor, colors, and facade are (UX), while the quality of the food is (Ui) (X)
51. Using decorative fonts frequently improves the clarity of text in UI design. (X)
52. Ease of use does not affect user satisfaction with the digital product (X)
53. The principle of ease of navigation is one of the principles of UX design, which indicates the importance of helping the user find what they are looking for easily within the product. (✓)
54. A website's main menu with clear buttons is an example of good navigation design (✓)
55. HTML is used to describe the appearance of web pages only (X)
56. One of the benefits of a CSS page is that it is used to design the page structure and content. (X)

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57. CSS was created to make it easier to format web pages and separate the formatting from the content. (✓)
58. The tag is still the preferred method for modern HTML pages. (X)
59. An external CSS file is inserted into HTML using the <link> tag. (✓)
60. The browser loads the external CSS file only once and then uses the saved copy. (✓)
61. The rel="stylesheet" property is used when linking a CSS file to an HTML file. (✓)
62. CSS can be used to change font size and colors. (✓)
63. Internal CSS is preferred for large websites to standardize formatting. (X)
64. In CSS code, the selector specifies properties such as color and size. (X)
65. The body element in CSS can change the background of the entire page. (✓)
66. When you change the formatting in an external CSS file, the appearance of linked pages is not affected. (X)
67. HTML code is used to create and build web pages
68. The <html> tag represents the general framework that contains all the elements of the page. (✓)
69. CSS cannot be used to format the content of web pages (X)
70. To write a main heading within a web page, the <h1> tag is used: <h1> [School Name] Middle School: <h1/> (✓)
71. the <body> tag is used to define the part of the page content that is displayed to the user. (✓)
72. The <title> tag is used to display the page title in the browser toolbar. (✓)
73. In CSS, "container" refers to a set of formats used to organization of content within a Word document (X)
74. The <div> tag is used to open a container to organize the page content within an HTML page. (✓)
75. The file <link rel="stylesheet" href="style.css"> connecting HTML with an external css formatting file. is called style.css (✓)
76. The part known as the <head> tag contains important information for the browser, and this information does not appear within the page content displayed to the user. (✓)
77. <footer> represents the bottom of the page or container (✓)
78. container { background-color: lightcyan } It makes the top bar white inside the page. (X)

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79. Creating a website with artificial intelligence requires you to write complex code. (X)
80. The importance of a website is limited to large companies only. (X)
81. You can use wegi.ai to create a simple website using text commands.
82. The About Us page is used to display images of the activities you do. (X)
83. A prompt is the text command you give to the AI to understand your request.
84. After the website is created by the AI, you cannot make any modifications to it. (X)
85. Choosing colors and design at the beginning of the project is not very important. (X)

Choose the appropriate answer to complete each of the following statements:

1. is considered an innovative solution to reduce waste at home.
A - Throwing waste in the streets. B - Not caring about this order.
C - Increasing waste. **D- The use of robots to sort waste.**
2. One of the major challenges facing the widespread implementation of smart systems.....
A - High cost and maintenance requirements. B - Increased speed.
C - Reduced efficiency. D - Not needed.
3. Systems that combine robotics, IoT, and AI are called.....
A- Traditional systems
B- Intelligent interconnected systems
C. Manual systems D. Mechanical systems.
4. The primary role of sensors in IoT is.....
A. Sending text messages B. Repairing networks
C. Collecting and linking data D. Manually operating devices
5. Which of the following is an example of ransomware?
A- A program that displays spam ads.
B- A program that encrypts your files and demands a ransom to decrypt them.
C- A program that cleans temporary files on your device.
D- A program that helps you organize your files.

6. What is the primary goal of a distributed denial of service (DDOS) attack?
A. Stealing user data. **B. Disabling a website or online service.**
C. Disseminating false information. D. Spying on user communications.
7. The term security updates means.....
A- Changing the appearance of the operating system.
B- Adding new features to the software.
C- Fixing security vulnerabilities in the software and hardware.
D- Accelerating the performance of applications.
8. Botnets used in DDOS attacks are called.....
A-Advanced artificial intelligence programs.
B. Superfast computers. C. A group of secure servers.
D. A network of hacked devices that are remotely controlled.
- 9-..... is one of the types of big data.
a- Engineering data.
b- Figurative data.
c- Structural data.
d- Pivotal data
- 10- Which of the five characteristics (5Vs) of big data refers to the reliability and quality of data, as data may sometimes contain errors or inaccurate information?
a- Volume
b- Velocity
c- Value
d- Veracity
- 11- What is the first stage of big data processing?
A- Data storage.
B- Data cleaning.
C- Big data aggregation.
D- Data analysis.

12- Which of the following uses of big data relies on understanding customer behavior and improving recommendations using

advanced analytics?

- A- Artificial intelligence.
- B- Machine and deep learning.
- C- Network monitoring and cyber security.

D- E-commerce.

13- Which of the following is an example of an advanced artificial intelligence application that relies on huge sets of images and videos to train its models?

A- Natural Language Processing (NLP)

B- Computer Vision

- C- Big Data Collection
- D- Task Automation

14- Big data helps machine learning automate tasks in areas such as:

- A- Customer Service
- B- Logistics
- C- Financial Services

D- All of the above

15- What is meant by the principle of ease of navigation in user experience design?

a. That the colors are bright and cheerful on all pages.

b. That the user can easily and quickly access what they are looking for.

c. That the website contains the largest possible number of pages.

d. That the menus are placed differently on each page for a fresh experience.

16- What is meant by the principle of consistency in interface design?

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- a. That the shapes and colors of the buttons change on each page.
- b. That the elements are displayed randomly to attract attention.
- c. That there is a difference in page design to break the monotony.

d. That the interface maintains the same style and shape for the buttons and elements on all pages.

17- Which of the following examples illustrates the use of inconsistent colors in UI design?

- a. Using simple color gradients.
- b. Using complementary colors from the color wheel.
- c. Using many bright colors randomly.**
- d. Using white as the primary color with a calm secondary color.

18- Which of the following is a fundamental principle in user interface (UI) design?

- a. Making all buttons the same size and shape.
- b. Choosing harmonious colors that are easy on the eyes.**
- c. Providing multiple ways to accomplish the same task.
- d. Ensuring that text is unreadable

19-The language is used..... To style the appearance of web pages.

- a- **CSS**
- b- XLSX
- c- DOC-
- d- HTTP-

20- Some of the benefits of the CSS language .

- a- A. Increased cost

B. Ease of modification and loading

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- C. Inappropriate appearance for the page
- D. Inability to control colors and fonts.

21- General format of CSS code

A-Selector {property: value};

B-value {property: selector};

C-property (value: selector);

D- selector {property };-

22- One of the ways to insert CSS styles into HTML code

A- Selector

B- responsive

C- Href

D- External css

23- The tag used to specify the title displayed in the browser bar is

A- <body >

B- <div class= " ">

C-<title >

D-<section >

24-The tag <h2>Base Information< /h2> represents

a. The main title of the page.

b. A subtitle of the page.

c. The bottom of the page.

d. Nothing on the page.

25- In CSS, the code body{text-align:center} is used

a. To make the text bold

b. To center the text

- c. To center the page horizontally and vertically.
- d. To make the font light blue.

26- The code header { padding: 10px } used for

- .A. Centering the container horizontally within the page
- .B. Making the container's width 8% of the page width
- .C. Formatting the top bar containing the container's title

D. Adding 10 pixels of internal space around the content.

27- The primary purpose of creating a website?

- a- Playing games only

B - Communicating and sharing information with the world

- c- Storing personal files
- D - Sending messages

28- What has made creating websites much easier nowadays?

- A - The increase in the number of programmers

B - Using AI technologies

- C - The decrease in computer prices
- D - The disappearance of programming languages

29- An example of an AI tool that helps

- A - Paint
- B - Word

c- wegic.ai

D - The calculator

30- When using AI tools to build a website, do you need to be an expert in programming?

A. Yes, you should be a professional.

B. Yes, you need some experience.

C. You don't need advanced programming experience.

D. Only if you want a complex website.

31 - What are the text commands you write to the AI tool to create the website called?

A- Programming code

B- Illustrative images

c- prompt

D- Internet link

32- If you want to make your website about a sports club, what is the most appropriate prompt for the first step?

"A. "Choose a blue design

"B. "Add a contact page

C. Create a website for a sports club

D. "Add pictures of books"

33 .Add information about yourself or about your website, any page you create is usually your

a) Contact page

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b) Photo page

c) About us page

d) Home page

34- Why is it important to define the colors and overall design of the website at the beginning of the project ?

a) To make the icons appear better

b) To customize the basic look of the website

c) To increase the speed of the website

d) To attract more programmers

35 - What does a photo page add to your website?

a) Introductory texts

b) Contact information

c) Attractive visual elements

d) Audio clips

36 -Which of the following is not considered contact information that may be added to the site?

A- Email

B- Social media page link

C- Phone number

D- Name of the designer

حمل الآن

مجاناً وحصرياً

المراجعة رقم (4)

الترم الاول



Final Revision

Put (✓) or (×):

- 1- Smart systems rely on artificial intelligence, the Internet of Things, and robotics to analyze data. ()
- 2- Different devices cannot be connected to the Internet to exchange data. ()
- 3- Robots can be used in smart homes to assist with tasks such as operating a vacuum cleaner or moving objects.()
- 4- In schools, artificial intelligence can be used to help understand and answer students' questions. ()
- 5- .AI can be used to identify polluted areas and suggest reducing the number of cars to solve the air pollution problem) (.
- 6- Climate change leads to heavy and sudden rainfall, so solutions cannot be found.()
- 7- IoT can be used to monitor ice and measure harmful gases. ()
- 8- Excessive water use, lack of rain, and irregular irrigation lead to water shortages and drought.()
- 9- Artificial intelligence cannot be used to find quick solutions to climate change .()
- 10- Robots play a role in monitoring ice or protecting it from rapid erosion. ()
- 11- Ongoing climate change leads to melting ice and air pollution. ()
- 12- Smart systems can be used to find solutions to reduce carbon emissions and air pollution. ()
- 13- Voice assistants can be connected to Internet of Things technology to access information over the internet.()
- 14- Robots cannot be used to control the movement of smart cars. ()
- 15- Sensors can be used to transmit information and determine location in smart cars.()
- 16- Using the same password for all your online accounts is a safe practice() .
- 17- Antivirus software provides complete protection against all cyber threats() .
- 18- Ransomware permanently damages your device() .
- 19- Distributed denial of service (DDoS) attacks' targets only one device() .
- 20- Social engineering relies on exploiting vulnerabilities in technical systems() .
- 21- Regularly updating your software and devices helps strengthen your cybersecurity() .
- 22- Sharing your personal information with anyone you trust online is always safe() .
- 23- A password that includes your name and date of birth is considered a strong password() .
- 24- Cyber' attacks are planned attacks that steal data from systems or devices() .
- 25- Social engineering is the art of hacking and tricking people into revealing confidential information or taking actions that compromise their security. ()

- 26- Big data can be easily processed using Excel. ()
- 27- Big data analysis allows analysts, researchers, and entrepreneurs to make better and faster decisions. ()
- 28- Internet-connected devices are a source of big data. ()
- 29- All data obtained through social media is documented. ()
- 30- Financial data is not considered big data. ()
- 31- When you make an online purchase using a credit card, data about the amount purchased and your geographic location is recorded. ()
- 32- Smartphones do not contribute to the generation of big data. ()
- 33- Your mobile phone continuously tracks your geographic location and collects data about the places you have visited and the applications you have used. ()
- 34- Digital content such as videos generates big data. ()
- 35- Videos, images, and audio content that are downloaded or viewed online do not generate big data. ()
- 36- Governments generate data through population registers, statistics, tax data, and censuses. ()
- 37- Satellites and GPS devices collect data about geographic locations, roads, and the environment. ()
- 38- The speed of data generation is not a characteristic of big data. ()
- 39- The variety of data types includes structured data (such as databases) and unstructured data (such as text, images, and videos). ()
- 40- Veracity refers to the reliability and quality of data. ()
- 41- Structured data is data that comes in an unstructured form, such as customer data and financial data. ()
- 42- Unstructured data is data that does not come in a structured form, such as tables or databases. ()
- 43- Semi-structured data is a hybrid of structured and unstructured data. ()
- 44- Emails are a good example of structured data. ()
- 45- The characteristics of big data are "volume" and "value." ()
- 46- Big data has no role in the development and effectiveness of artificial intelligence. ()
- 47- Artificial intelligence techniques help in processing and analyzing big data. ()
- 48- One of the stages of processing big data is data cleaning. ()
- 49- The data collection stage is the process of collecting large amounts of data from various sources. ()
- 50- The process of processing big data does not require storing that data. ()
- 51- Data cleaning means dealing with duplicate errors or incorrect data. ()
- 52- Data analysis using advanced tools and techniques such as artificial intelligence. ()

- 53- Information extraction takes place before data analysis. ()
- 54- Machine learning and deep learning do not require big data. ()
- 55- Big data is used to monitor networks and ensure cybersecurity. ()
- 56- E-commerce platforms rely on big data to understand customer behavior. ()
- 57- Big data does not allow models to be trained on a wide range of scenarios and conditions. ()
- 58- Computer vision applications, such as face recognition and object detection, do not require large datasets of images and videos to train their models. ()
- 59- The role of big data in artificial intelligence is to improve accuracy and performance and enable artificial intelligence applications. ()
- 60- Advanced applications of artificial intelligence include predictive analytics and computer vision. ()
- 61- Artificial intelligence does not use big data to understand customer interactions with products and services. ()
- 62- Big data helps machine learning algorithms recognize patterns and make decisions without human intervention. ()
- 63- Big data improves the automation of tasks in areas such as customer service, logistics, and finance. ()
- 64- Big data is not the raw material upon which artificial intelligence is fed. ()
- 65- User Experience (UX) design focuses primarily on the appearance of the product, not how it is used. ()
- 66- User Interface (UI) design is concerned with making the product easy to use and effective. ()
- 67- One of the principles of UX design is to provide clear and easy navigation for the user. ()
- 68- Using decorative fonts extensively improves the legibility of text in UI design. ()
- 69- Consistency in design means using the same style for elements throughout the product. ()
- 70- Ease of use does not affect user satisfaction with the digital product. ()
- 71- The visual appeal of the UI can affect the user's first impression. ()
- 72- A main menu with clear buttons is an example of good navigation design. ()
- 73- Using many different colors in an organized manner improves the aesthetics of the design. ()
- 74- The HTML language is used only to describe the appearance of web pages. ()
- 75- 2. The CSS language was created to facilitate the formatting of web pages and to separate the formatting from the content. ()
- 76- 3. One of the benefits of CSS is that it is used to design the structure and content of a page. ()

- 77- An external CSS file can be used to format a large number of HTML pages at once. ()
- 78- The tag is still the preferred method for formatting text in modern HTML pages. ()
- 79- An external CSS file is embedded in HTML using the <link> tag. ()
- 80- The browser loads the external CSS file only once and then uses the saved copy. ()
- 81- The rel="stylesheet" attribute is used when linking a CSS file to an HTML file. ()
- 82- An external CSS file can contain HTML tags. ()
- 83- CSS can be used to change the font size and color. ()
- 84- Inline CSS is used to apply styles to all pages on a website. ()
- 85- Internal CSS is best used on large websites to standardize formatting. ()
- 86- CSS makes it easy to modify the appearance of all linked pages at once. ()
- 87- Formatting HTML elements with CSS makes a page more organized and attractive. ()
- 88- In CSS code, the Selector defines properties such as "color" and "size". ()
- 89- The body element in CSS can change the background of the entire page. ()
- 90- CSS makes it impossible to make a design responsive to different screen sizes. ()
- 91- Writing formatting code within each HTML page is more efficient than using external CSS. ()
- 92- Separating formatting from content helps speed up editing and updating processes. ()
- 93- When you change formatting in an external CSS file, the appearance of the linked pages is not affected. ()
- 94- Creating a website using artificial intelligence requires you to write complex code. ()
- 95- The importance of websites is limited to large companies only. ()
- 96- You can use wegic.ai to create a simple website using text commands. ()
- 97- The "About Us" page is used to display images of your activities. ()
- 98- The prompt is the text command you give to the artificial intelligence to understand your request. ()
- 99- After the website is created by artificial intelligence, you cannot make any modifications to it. ()
- 100- Choosing colors and design at the beginning of work is not very important. ()
- 101- The term "container" in CSS refers to a set of styles used to organize content within a Word file. ()
- 102- The <div> tag is used to open a container to organize page content within an HTML page. ()

- 103-** The tag: `<link href="style.css" rel="stylesheet" >` connects the HTML file to an external stylesheet named "style.css".()
- 104-** The part known as the `<head>` tag contains important information for the browser, and this information does not appear within the content displayed to the user.()
- 105-** The footer represents the bottom part of the page or container.()
- 106-** The code: `container {background-color: lightcyan;}` makes the top bar appear white within the page.()
- 107-** The `<title>` tag's content appears in the browser's bar.()
- 108-** The `<h1></h1 >` tag's provides a main title for the HTML page.()
- 109-** `<header>` it identifies the top of the page or containing the main heading.()
- 110-** The `<body>` section contains content visible to the user.()

Choose the correct answer from the following:

- 1- Why is it important for prompts to be simple and clear?.....
- a) To reduce the size of the website b) To help AI better understand your request
- c) To increase the number of visitors d) To save time when publishing
- 2- The main goal of using AI in website building in our lesson is to.....
- a) Transform you into professional web developers.
- b) Introduce you to the capabilities of AI in website building
- c) Save money on programmers d) Create gaming websites only
- 3- The code: `body {text-align: center;}` in CSS is used for.....
- a. Making the text bold. d. Making the font color light cyan.
- b. Centering text horizontally in the middle of the page.
- c. Horizontal and vertical centering of the page.
- 4- The code: `header {padding: 10px;}` is used for.....
- a. Horizontally centering the container within the page.
- b. Making the container width 8% of the page width.
- c. Styling the top bar that contains the container title.
- d. Adding an internal space of 10 pixels around the content.
- 5- What does an "image page" add to your website?.....
- a) Introductory text b) Contact information

c) Attractive visual elements

d) Audio clips

6-is the scripts we write to an AI tool to create a website.

a) Code

b) Descriptive Images

c) Prompt

d) URL

6 .If you want to make your website about a sports club, the prompt is the most appropriate first step.

a) "Choose a blue design"

b) "Add a contact page"

c) "Create a website for a sports club"

d) "Add pictures of books"

7 .To add information about yourself or the topic of your website create page

a) Contact page

b) Photo page

c) "About us" page

d) Home page.

8- An example of an AI tool that helps in building websites is.....

a) Paint

b) Word

c) Wegic.ai

d) Calculator

9- is the primary purpose of creating a website.

a) Playing games only

b) Communicating and displaying information to the world

c) Storing personal files

d) Sending text messages only

10- To format the appearance of web pages, we use

a. HTTP

b. DOC

c. XLSX

d. CSS

11- One of the benefits of CSS is:.....

A. Increased cost

B. Ease of modification and loading

C. An unsuitable appearance for the page.

D. Inability to control colors and fonts.

12- It is preferable to use in designing large websites

a.HTML

b. DOC

c. XLSX

d. CSS

13- The word `body` in the syntax : `body {background-color: lightblue;}` expresses to.....

a. property

b. Selector

c. Value

d. text

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- a) By increasing temperature.
- b) By melting the ice more quickly.
- c) By ignoring the problem.
- d) By monitoring the melting rate and proposing solutions.

38- AI can improve the efficiency of self-driving cars.....

- a) By increasing fuel consumption.
- b) By analyzing traffic and making safe decisions.
- c) By stopping the car suddenly.
- d) By ignoring traffic signals.

39. If you wanted to design a smart system to reduce water consumption in a school, you need to

- a) IoT to monitor water consumption, AI to analyze data, and robots to automatically turn off taps
- b) Air conditioners only
- c) Smartphones without an internet connection
- d) Standard lighting systems

40- is the primary focus of User Experience (UX) design.

- a) The visual appeal of the design.
- b) The usability and effectiveness of the product.
- c) The colors and fonts used in the design.
- d) The website's loading speed.

41 -What is the primary focus of User Interface (UI) design?

- a) Ease of navigation within the application.
- b) User satisfaction with the product.
- c) The visual appeal of the product.
- d) The logical organization of information.

42 -..... is a fundamental principle of User Experience (UX) design.

- a) Using decorative fonts to attract attention.
- b) Providing clear and easy navigation for the user.
- c) Using as many colors as possible.
- d) Placing as much information on a single page as possible.

43..... is a fundamental principle of User Interface (UI) design.

- a) Making all buttons the same size and shape.
- b) Choosing colors that are consistent and pleasing to the eye.
- c) Providing multiple ways to accomplish the same task.
- d) Ensure that all text is unreadable.

44 -..... is the principle of "consistency" mean in UX design.

- a) Use different elements on each page to make it stand out.
- b) Maintain a consistent style for elements throughout the product.
- c) Change the website design frequently to keep users interested.
- d) Use random fonts and colors.

45 - Usability important in UX design

- a) To make the design look more professional.
- b) To increase user satisfaction and interaction with the product.
- c) To reduce the cost of product development.
- d) To make the product run faster.

46 - Visual appeal is important in UI design.....

- a) To make the product easy to use.
- b) To leave a good first impression with the user.
- c) To better organize information.
- d) To make the product compatible with all devices.

47 -..... examples illustrates a confusing navigation design.

- a) A main menu with clear buttons.
- b) A search bar in a prominent location.
- c) A list of overlapping, unorganized items.
- d) Clear links at the end of the page.

48 -..... examples illustrates the use of inconsistent colors in UI design.

- a) Using simple color gradients.
- b) Using complementary colors from the color wheel.
- c) Using many bright, different colors randomly.
- d) Using white as the primary color with a muted secondary color.

49- Computer vision applications rely on massive data sets of

- a.images
- b. maps
- c. videos
- d. a and c

50-NLP apps require processing

- a.images
- b. maps
- c. videos
- d. text datasets

51- Big data improves AI by reducing the

- a.overfitting
- b. cost
- c. USB
- d. LPT

52-is considered the raw material for artificial intelligence.

- a.stories
- b. big data
- c. images
- d. song

53- The first stage of data processing is data

- a.analysis
- b. collection
- c. cleaning
- d. storage

54- The final stage of data processing is.....

- a. information extraction
- b. collection
- c. cleaning
- d. storage

55- is a type of malware encrypts your files and demands money to recover them.

- a.DDOs b. Ransomware c. Social Engineering d. USB

56- It aims to disrupt a website or online service by sending

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57-..... is the art of hacking and tricking people into revealing confidential information or taking actions that compromise their security.

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58- In DDOs attack the attackers use multiple compromised devices called.....

- a.servers b. viruses c. botnets d. maps

59- In..... the attacker creates a fake story or scenario to trick the victim into obtaining information.

- a.baiting b. pretexting c. spear phishing d. anti- viruses

60- In the attacker offers the victim something attractive, such as a free **USB**.

- a.baiting b. pretexting c. spear phishing d. anti- viruses

61- is an advanced type of phishing that targets specific individuals or organizations with highly personal and convincing emails or text messages.

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62- It refers to the reliability of the data

- a. Veracity b. Value c. Velocity d. Volume

63-..... refers to the usefulness that can be derived from data.

- a. Veracity b. Value c. Velocity d. Volume

64-..... refers to the massive amount of data collected and stored.

- a. Veracity b. Value c. Velocity d. Volume

65-..... refers to the variety of data types collected.

- a. Veracity b. Value c. Variety d. Volume

66- Data that is organized and arranged in tables with rows and columns, like a database.

- a. Structured b. Unstructured c. Semi-Structured d. baiting
- 67- Data that is difficult to analyze using traditional tools.
- a. Structured b. Unstructured c. Semi-Structured d. baiting
- 68- Emails are a good example of data.
- a. Structured b. Unstructured c. Semi-Structured d. baiting
- 69- Big data helps machine learning algorithms automate tasks in areas such as:.....
- a- Customer Service b- Logistics C- Financial Services d- All of the above
- 70- Predicting customer behavior with AI is
- a. NLP b. GPT c. predictive analytics d. quality

Complete the following sentences:

- 1- The GPT model is used in
- 2- is a branch of information systems science that enables the creation and design of algorithms that mimic human intelligence methods.
- 3- Big data is used to monitor network traffic and analyze patterns to detect security threats and protect systems from attacks. This is known as
- 4- A set of large and complex data that cannot be efficiently processed using traditional technology to achieve its intended purpose. (.....)
- 5- It is a combination of structured and unstructured data. (.....)
- 6- It is data that does not come in a structured form, such as tables or databases. (.....)
- 7- It is data that is organized and arranged in tables with rows and columns, such as databases. (.....)
- 8- The program helps detect and remove malware from your device.
- 9- In DDoS attacks, a network of compromised devices called
- 10- Attempts to steal your personal information via fake emails are called.....
11.encrypt your files and demand a ransom to recover them.
- 12 attacks aim to disrupt a website or online service by sending massive amounts of requests.
- 13- To create a website that showcases your ideas to the world, you need.....
- 14- The prompt is the we enter into the AI tool

- 15- The first step in creating a website with AI is to define the Of the website.
- 16- You can use to create a simple website using text commands.
- 17- design process aimed at making a digital product easy, useful, and enjoyable to use for the user.
18. The process ofdesign is the visual elements of an application or website in an attractive, organized, and easy-to-understand manner .
- 19- The basic structure of CSS consists of,....., and.....
- 20- The property specifies the filename and path.
- 21 .The property specifies the relationship between an HTML file and CSS.
- 22 applies formatting directly to page elements.
- 23 is used to format individual pages.
24. is preferred for large websites to unify the design and formatting of their pages.
- 25- language is used to create static web pages.



Final Revision

Put (✓) or (×):

- 1- Smart systems rely on artificial intelligence, the Internet of Things, and robotics to analyze data. (✓)
- 2- Different devices cannot be connected to the Internet to exchange data. (×)
- 3- Robots can be used in smart homes to assist with tasks such as operating a vacuum cleaner or moving objects.(✓)
- 4- In schools, artificial intelligence can be used to help understand and answer students' questions. (✓)
- 5- .AI can be used to identify polluted areas and suggest reducing the number of cars to solve the air pollution problem . ✓
- 6- Climate change leads to heavy and sudden rainfall, so solutions cannot be found.(×)
- 7- IoT can be used to monitor ice and measure harmful gases. (✓)
- 8- Excessive water use, lack of rain, and irregular irrigation lead to water shortages and drought.(✓)
- 9- Artificial intelligence cannot be used to find quick solutions to climate change .(×)
- 10- Robots play a role in monitoring ice or protecting it from rapid erosion. (✓)
- 11- Ongoing climate change leads to melting ice and air pollution. (✓)
- 12- Smart systems can be used to find solutions to reduce carbon emissions and air pollution. (✓)
- 13- Voice assistants can be connected to Internet of Things technology to access information over the internet.(✓)
- 14- Robots cannot be used to control the movement of smart cars. (×)
- 15- Sensors can be used to transmit information and determine location in smart cars.(✓)
- 16- Using the same password for all your online accounts is a safe practice() . ×
- 17- Antivirus software provides complete protection against all cyber threats() . ×
- 18- Ransomware permanently damages your device() . ×
- 19- Distributed denial of service (DDoS) attacks' targets only one device() . ×
- 20- Social engineering relies on exploiting vulnerabilities in technical systems() . ×
- 21- Regularly updating your software and devices helps strengthen your cybersecurity .(✓)
- 22- Sharing your personal information with anyone you trust online is always safe .×
- 23- A password that includes your name and date of birth is considered a strong password() . ×
- 24- Cyber' attacks are planned attacks that steal data from systems or devices .(✓)

- 25- Social engineering is the art of hacking and tricking people into revealing confidential information or taking actions that compromise their security. (✓)
- 26- Big data can be easily processed using Excel. (✗)
- 27- Big data analysis allows analysts, researchers, and entrepreneurs to make better and faster decisions. (✓)
- 28- Internet-connected devices are a source of big data. (✓)
- 29- All data obtained through social media is documented. (✗)
- 30- Financial data is not considered big data. (✗)
- 31- When you make an online purchase using a credit card, data about the amount purchased and your geographic location is recorded. (✓)
- 32- Smartphones do not contribute to the generation of big data. (✗)
- 33- Your mobile phone continuously tracks your geographic location and collects data about the places you have visited and the applications you have used. (✓)
- 34- Digital content such as videos generates big data. (✓)
- 35- Videos, images, and audio content that are downloaded or viewed online do not generate big data. (✗)
- 36- Governments generate data through population registers, statistics, tax data, and censuses. (✓)
- 37- Satellites and GPS devices collect data about geographic locations, roads, and the environment. (✓)
- 38- The speed of data generation is not a characteristic of big data. (✗)
- 39- The variety of data types includes structured data (such as databases) and unstructured data (such as text, images, and videos). (✓)
- 40- Veracity refers to the reliability and quality of data. (✓)
- 41- Structured data is data that comes in an unstructured form, such as customer data and financial data. (✗)
- 42- Unstructured data is data that does not come in a structured form, such as tables or databases. (✓)
- 43- Semi-structured data is a hybrid of structured and unstructured data. (✓)
- 44- Emails are a good example of structured data. (✗)
- 45- The characteristics of big data are "volume" and "value." (✓)
- 46- Big data has no role in the development and effectiveness of artificial intelligence. (✗)
- 47- Artificial intelligence techniques help in processing and analyzing big data. (✓)
- 48- One of the stages of processing big data is data cleaning. (✓)
- 49- The data collection stage is the process of collecting large amounts of data from various sources. (✓)

- 50- The process of processing big data does not require storing that data. (✕)
- 51- Data cleaning means dealing with duplicate errors or incorrect data. (✓)
- 52- Data analysis using advanced tools and techniques such as artificial intelligence. (✓)
- 53- Information extraction takes place before data analysis. (✕)
- 54- Machine learning and deep learning do not require big data. (✕)
- 55- Big data is used to monitor networks and ensure cybersecurity. (✓)
- 56- E-commerce platforms rely on big data to understand customer behavior. (✓)
- 57- Big data does not allow models to be trained on a wide range of scenarios and conditions. (✕)
- 58- Computer vision applications, such as face recognition and object detection, do not require large datasets of images and videos to train their models. (✕)
- 59- The role of big data in artificial intelligence is to improve accuracy and performance and enable artificial intelligence applications. (✓)
- 60- Advanced applications of artificial intelligence include predictive analytics and computer vision. (✓)
- 61- Artificial intelligence does not use big data to understand customer interactions with products and services. (✕)
- 62- Big data helps machine learning algorithms recognize patterns and make decisions without human intervention. (✓)
- 63- Big data improves the automation of tasks in areas such as customer service, logistics, and finance. (✓)
- 64- Big data is not the raw material upon which artificial intelligence is fed. (✕)
- 65- User Experience (UX) design focuses primarily on the appearance of the product, not how it is used. (✕)
- 66- User Interface (UI) design is concerned with making the product easy to use and effective. (✕)
- 67- One of the principles of UX design is to provide clear and easy navigation for the user. (✓)
- 68- Using decorative fonts extensively improves the legibility of text in UI design. (✕)
- 69- Consistency in design means using the same style for elements throughout the product. (✓)
- 70- Ease of use does not affect user satisfaction with the digital product. (✕)
- 71- The visual appeal of the UI can affect the user's first impression. (✓)
- 72- A main menu with clear buttons is an example of good navigation design. (✓)
- 73- Using many different colors in an organized manner improves the aesthetics of the design. (✕)

- 74- The HTML language is used only to describe the appearance of web pages. (✗)
- 75- The CSS language was created to facilitate the formatting of web pages and to separate the formatting from the content. (✓)
- 76- One of the benefits of CSS is that it is used to design the structure and content of a page. (✗)
- 77- An external CSS file can be used to format a large number of HTML pages at once. (✓)
- 78- The tag is still the preferred method for formatting text in modern HTML pages. (✗)
- 79- An external CSS file is embedded in HTML using the <link> tag. (✓)
- 80- The browser loads the external CSS file only once and then uses the saved copy. ✓
- 81- The rel="stylesheet" attribute is used when linking a CSS file to an HTML file. (✓)
- 82- An external CSS file can contain HTML tags. (✗)
- 83- CSS can be used to change the font size and color. (✓)
- 84- Inline CSS is used to apply styles to all pages on a website. (✗)
- 85- Internal CSS is best used on large websites to standardize formatting. (✗)
- 86- CSS makes it easy to modify the appearance of all linked pages at once. (✓)
- 87- Formatting HTML elements with CSS makes a page more organized and attractive. (✓)
- 88- In CSS code, the Selector defines properties such as "color" and "size". (✗)
- 89- The body element in CSS can change the background of the entire page. (✓)
- 90- CSS makes it impossible to make a design responsive to different screen sizes. (✗)
- 91- Writing formatting code within each HTML page is more efficient than using external CSS. (✗)
- 92- Separating formatting from content helps speed up editing and updating processes. (✓)
- 93- When you change formatting in an external CSS file, the appearance of the linked pages is not affected. (✗)
- 94- Creating a website using artificial intelligence requires you to write complex code. (✗)
- 95- The importance of websites is limited to large companies only. (✗)
- 96- You can use wegic.ai to create a simple website using text commands. (✓)
- 97- The "About Us" page is used to display images of your activities. (✗)
- 98- The prompt is the text command you give to the artificial intelligence to understand your request. (✓)

- 99- After the website is created by artificial intelligence, you cannot make any modifications to it. (×)
- 100- Choosing colors and design at the beginning of work is not very important. (×)
- 101- The term "container" in CSS refers to a set of styles used to organize content within a Word file . (×)
- 102- The <div> tag is used to open a container to organize page content within an HTML page.(✓)
- 103- The tag: <link href="style.css" rel="stylesheet" > connects the HTML file to an external stylesheet named "style.css".(✓)
- 104- The part known as the <head> tag contains important information for the browser, and this information does not appear within the content displayed to the user.(✓)
- 105- The footer represents the bottom part of the page or container.(✓)
- 106- The code: container {background-color: lightcyan;} makes the top bar appear white within the page.(×)
- 107- The <title> tag's content appears in the browser's bar.(✓)
- 108- The <h1></h1 > tag's provides a main title for the HTML page.(✓)
- 109- <header> it identifies the top of the page or containing the main heading.(✓)
- 110- The <body> section contains content visible to the user.(✓)

Choose the correct answer from the following:

1- Why is it important for prompts to be simple and clear?.....

- a) To reduce the size of the website **b) To help AI better understand your request**
- c) To increase the number of visitors d) To save time when publishing

2- The main goal of using AI in website building in our lesson is to.....

a) Transform you into professional web developers.

b) Introduce you to the capabilities of AI in website building

- c) Save money on programmers d) Create gaming websites only

3- The code: body {text-align: center;} in CSS is used for.....

- a. Making the text bold. d. Making the font color light cyan.

b. Centering text horizontally in the middle of the page.

c. Horizontal and vertical centering of the page.

4- The code: header {padding: 10px;} is used for.....

- a. Horizontally centering the container within the page.

b. Making the container width 8% of the page width.

c. Styling the top bar that contains the container title.

d. Adding an internal space of 10 pixels around the content.

5- What does an "image page" add to your website?.....

a) Introductory text

b) Contact information

c) Attractive visual elements

d) Audio clips

6-is the scripts we write to an AI tool to create a website.

a) Code

b) Descriptive Images

c) Prompt

d) URL

6 .If you want to make your website about a sports club, the prompt is the most appropriate first step.

a) "Choose a blue design"

b) "Add a contact page"

c) "Create a website for a sports club"

d) "Add pictures of books"

7 .To add information about yourself or the topic of your website create page

a) Contact page

b) Photo page

c) "About us" page

d) Home page.

8- An example of an AI tool that helps in building websites is.....

a) Paint

b) Word

c) Wegic.ai

d) Calculator

9- is the primary purpose of creating a website.

a) Playing games only

b) Communicating and displaying information to the world

c) Storing personal files

d) Sending text messages only

10- To format the appearance of web pages, we use

a. HTTP

b. DOC

c. XLSX

d. CSS

11- One of the benefits of CSS is:.....

A. Increased cost

B. Ease of modification and loading

C. An unsuitable appearance for the page.

D. Inability to control colors and fonts.

12- It is preferable to use in designing large websites

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c) By ignoring the problem.

d) By monitoring the melting rate and proposing solutions.

38- AI can improve the efficiency of self-driving cars.....

a) By increasing fuel consumption.

b) By analyzing traffic and making safe decisions.

c) By stopping the car suddenly.

d) By ignoring traffic signals.

39. If you wanted to design a smart system to reduce water consumption in a school, you need to

a) IoT to monitor water consumption, AI to analyze data, and robots to automatically turn off taps

b) Air conditioners only

c) Smartphones without an internet connection

d) Standard lighting systems

40- is the primary focus of User Experience (UX) design.

a) The visual appeal of the design.

b) The usability and effectiveness of the product.

c) The colors and fonts used in the design.

d) The website's loading speed.

41 -What is the primary focus of User Interface (UI) design?

a) Ease of navigation within the application.

b) User satisfaction with the product.

c) The visual appeal of the product.

d) The logical organization of information.

42 -..... is a fundamental principle of User Experience (UX) design.

a) Using decorative fonts to attract attention.

b) Providing clear and easy navigation for the user.

c) Using as many colors as possible.

d) Placing as much information on a single page as possible.

43..... is a fundamental principle of User Interface (UI) design.

a) Making all buttons the same size and shape.

b) Choosing colors that are consistent and pleasing to the eye.

c) Providing multiple ways to accomplish the same task.

d) Ensure that all text is unreadable.

44 -..... is the principle of "consistency" mean in UX design.

a) Use different elements on each page to make it stand out.

b) Maintain a consistent style for elements throughout the product.

c) Change the website design frequently to keep users interested.

d) Use random fonts and colors.

45 - Usability important in UX design

a) To make the design look more professional.

b) To increase user satisfaction and interaction with the product.

c) To reduce the cost of product development.

d) To make the product run faster.

46 - Visual appeal is important in UI design.....

a) To make the product easy to use.

c) To better organize information.

b) To leave a good first impression with the user.

d) To make the product compatible with all devices.

47 -..... examples illustrate a confusing navigation design.

a) A main menu with clear buttons.

b) A search bar in a prominent location.

c) A list of overlapping, unorganized items.

d) Clear links at the end of the page.

48 -..... examples illustrate the use of inconsistent colors in UI design.

a) Using simple color gradients.

b) Using complementary colors from the color wheel.

c) Using many bright, different colors randomly.

d) Using white as the primary color with a muted secondary color.

49- Computer vision applications rely on massive data sets of

a.images

b. maps

c. videos

d. a and c

50-NLP apps require processing

a.images

b. maps

c. videos

d. text datasets

51- Big data improves AI by reducing the

a.overfitting

b. cost

c. USB

d. LPT

52-is considered the raw material for artificial intelligence.

a.stories **b. big data** c. images d. song

53- The first stage of data processing is data

a.analysis b. **collection** c. cleaning d. storage

54- The final stage of data processing is.....

a. **information extraction** b. collection c. cleaning d. storage

55- is a type of malware encrypts your files and demands money to recover them.

a.DDOs b. **Ransomware** c. Social Engineering d. USB

56- It aims to disrupt a website or online service by sending

a.**DDOs** b. Ransomware c. Social Engineering d. USB

57-..... is the art of hacking and tricking people into revealing confidential information or taking actions that compromise their security.

a.DDOs b. Ransomware c. **Social Engineering** d. USB

58- In DDOs attack the attackers use multiple compromised devices called.....

a.servers b. viruses c. **botnets** d. maps

59- In..... the attacker creates a fake story or scenario to trick the victim into obtaining information.

a. baiting b. **pretexting** c. spear phishing d. anti- viruses

60- In the attacker offers the victim something attractive, such as a free **USB**.

a. **baiting** b. pretexting c. spear phishing d. anti- viruses

61- is an advanced type of phishing that targets specific individuals or organizations with highly personal and convincing emails or text messages.

a .baiting b. pretexting c. **spear phishing** d. anti- viruses

62- It refers to the reliability of the data

a. **Veracity** b. Value c. Velocity d. Volume

63-..... refers to the usefulness that can be derived from data.

a. Veracity b. **Value** c. Velocity d. Volume

64-..... refers to the massive amount of data collected and stored.

a. Veracity b. Value c. Velocity d. **Volume**

65-..... refers to the variety of data types collected.

a. Veracity b. Value c. **Variety** d. Volume

66- Data that is organized and arranged in tables with rows and columns, like a database.

a. **Structured** b. Unstructured c. Semi-Structured d. baiting

67- Data that is difficult to analyze using traditional tools.

a. Structured b. **Unstructured** c. Semi-Structured d. baiting

68- Emails are a good example of data.

a. Structured b. Unstructured c. **Semi-Structured** d. baiting

69- Big data helps machine learning algorithms automate tasks in areas such as:.....

a- Customer Service b- Logistics C- Financial Services **d- All of the above**

70- Predicting customer behavior with AI is

a. NLP b. GPT c. **predictive analytics** d. quality

Complete the following sentences:

1- The GPT model is used in**NLP**.....

2-**AI**..... is a branch of information systems science that enables the creation and design of algorithms that mimic human intelligence methods.

3- Big data is used to monitor network traffic and analyze patterns to detect security threats and protect systems from attacks. This is known as ...**Network Monitoring Cybersecurity**....

4- A set of large and complex data that cannot be efficiently processed using traditional technology to achieve its intended purpose. (...**Big Data**.....)

5- It is a combination of structured and unstructured data. (... **semi structured**.....)

6- It is data that does not come in a structured form, such as tables or databases. (...**unstructured Data**.....)

7- It is data that is organized and arranged in tables with rows and columns, such as databases. (...**Structured Data**.....)

8- The**anti-virus**..... program helps detect and remove malware from your device.

9- In DDoS attacks, a network of compromised devices called**botnets**....

10- Attempts to steal your personal information via fake emails are called ...**social engineering**....

11.**Ransomware**.....encrypt your files and demand a ransom to recover them.
- 12..... **DDOs**attacks aim to disrupt a website or online service by sending massive amounts of requests.
- 13- To create a website that showcases your ideas to the world, you need..**AI tool**...
- 14- The prompt is**text command**..... the we enter into the AI tool
- 15- The first step in creating a website with AI is to define the**type**..... Of the website.
- 16- You can use**wegic. ai**..... to create a simple website using text commands.
- 17-**UX**..... design process aimed at making a digital product easy, useful, and enjoyable to use for the user.
18. The process of**UI**.....design is the visual elements of an application or website in an attractive, organized, and easy-to-understand manner .
- 19- The basic structure of CSS consists of**selector**.....,.....**property**....., and.....**value**.....
- 20- The**href**..... property specifies the filename and path.
- 21 .The**rel**..... property specifies the relationship between an HTML file and CSS.
- 22..... **Inline CSS**applies formatting directly to page elements.
- 23..... **Internal CSS**is used to format individual pages.
24.**External CSS**..... is preferred for large websites to unify the design and formatting of their pages.
- 25-**HTML**..... language is used to create static web pages.



حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

الترم الاول



First : Put a (✓)or (x) :

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Second : Choose the appropriate answer:

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- ICT 1st prep Grade Term 1

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- NLP,
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- 18- Which of the following is considered a basic principle in User Interface (UI) design?
- Making all buttons the same size and shape,
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19- The language is used to style the appearance of web pages.

- a. HTTP. b. DOC
- c. XLSX d. CSS

20- One of the benefits of the CSS language is

- a. Excessive cost. b. Ease of modification and loading.
- c. Inappropriate appearance for the page. d. Inability to control colors and fonts.

21- The general syntax of CSS code is

- a. selector{property: value}; b. value{ property: selector };
- c. property {value: selector };
- d. selector{property };

22- One of the ways through which CSS formats can be incorporated into HTML code ..

- a. Selector b. Responsive.
- c. Href d. External CSS

23- The tag used to define the title shown in the browser's title bar is.....

- a. <body> b. <div class="" >
- c. <title> d. <section>

24- The tag <h2> Basic Information </h2> represents.....

- a. The main title of the page. b. A subtitle of the page.
- c. The bottom part of the page. d. It does not represent anything on the page.

25- The code: **.body {text-align: center ;}** in CSS is used for

- a. Making the text bold.
- b. Centering text horizontally in the middle of the page.
- c. Horizontal and vertical centering of the page.
- d. Making the font color light cyan.

26- The code: **.header {padding: 10px ;}** is used for

- a. Horizontally centering the container within the page.
- b. Making the container width 8% of the page width.
- c. Styling the top bar that contains the container title.
- d. Adding an internal space of 10 pixels around the content.

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- ICT 1st prep Grade Term 1

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19- The language is used to style the appearance of web pages.

- a. HTTP.
- b. DOC
- c. XLSX
- d. CSS

20- One of the benefits of the CSS language is

- a. Excessive cost.
- b. Ease of modification and loading.
- c. Inappropriate appearance for the page.
- d. Inability to control colors and fonts.

21- The general syntax of CSS code is

- a. selector{property: value};
- b. value{ property: selector };
- c. property {value: selector };
- d. selector{property };

22- One of the ways through which CSS formats can be incorporated into HTML code ..

- a. Selector
- b. Responsive.
- c. Href
- d. External CSS

23- The tag used to define the title shown in the browser's title bar is.....

- a. <body>
- b. <div class="" >
- c. <title>
- d. <section>

24- The tag <h2> Basic Information </h2> represents.....

- a. The main title of the page.
- b. A subtitle of the page.
- c. The bottom part of the page.
- d. It does not represent anything on the page.

25- The code: **.body {text-align: center ;}** in CSS is used for

- a. Making the text bold.
- b. Centering text horizontally in the middle of the page.
- c. Horizontal and vertical centering of the page.
- d. Making the font color light cyan.

26- The code: **.header {padding: 10px ;}** is used for

- a. Horizontally centering the container within the page.
- b. Making the container width 8% of the page width.
- c. Styling the top bar that contains the container title.
- d. Adding an internal space of 10 pixels around the content.

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9

